



# Energy efficient lighting control

2016/2017

# Brighter Lighting

With intelligent sensors, Aura Light takes lighting control to the next level. The smart components and systems enable us to simplify the installation process and customise the lighting control installation to the needs of both users and premises.

The fundamental concept upon which our systems are based is de-centralized lighting control. By splitting the installation into clusters of smaller lighting groups, each group can be both controlled individually, as well as communicate with other groups. Not only does this give users a better experience, but it also significantly reduces energy consumption. It is also a cost effective solution for both purchaser and installer. Intelligent lighting controls in combination with an efficient luminaire and light source, can enable users to reduce their energy consumption by up to 80%.

We know about the the challenges you face and can help you select the best possible combination of luminaires, light sources and intelligent lighting control. Upgrading to sustainable energy efficient lighting is easy, just give us a call: +46 (0)8 564 881 40.

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**Bright idea:** Lighting control from Aura Light can help you reduce your energy consumption by up to 80%.



# Full range of high-quality sensors

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Aura Light offers sensors for a wide range of applications, from parking garages and logistic centers to office and retail applications. Our sensors are available for both wired and wireless installations.

## PIR - Infrared technology

Passive Infrared (PIR) sensors detect variations of thermal radiation in a given range. For use both indoor and outdoor, these sensors activate upon any sudden change in heat/temperature, thereby detecting human motion or the motion of other living creatures that emit heat. Upon detection, sensors connected to lighting can be set to turn on/off or dim the lights automatically.

## HF - Microwave technology

High-frequency (HF) microwave sensors send out signals that are reflected back to the sensor. The sensor interprets differences in the reflected signal as movement. More sensitive than PIR technology, HF motion detection technology instantly responds to the smallest movement. This makes HF sensors

ideal for presence detection in areas such as offices and classrooms, where there are small movements. HF sensors detect presence through glass, wood and thin walls. This ensures that there are no undetected areas behind for example partitions or furniture. HF sensors are also able to detect all types of vehicles, making it an excellent choice where it is important to monitor access to open spaces, such as those in warehouses, parking- and logistics areas. HF sensors are virtually insensitive to dirt, thereby offering a distinct advantage over PIR sensors, which experience impaired operation in dusty or dirty environments due to accumulation of airborne particles on the optical lens.

## KNX - bus system

Some of our sensors are available in KNX. This is a bus system that connects the facility's technical components such as lighting, heating, cooling, ventilation etc. KNX is an open, standardized communication system (ISO / IEC 14543-3, EN 50090). All of the KNX-certified products are fully compatible and can be used together regardless of manufacturer.

## PIR - Infrared technology



Infrared detection technology (PIR) is a passive detection of heat sources. Changes of thermal radiations are interpreted as movements. This detection technology is perfect for bigger movements of humans.

## HF - Microwave technology



HF sensor technology sends out a signal and interprets changes on reflected signal as movement. The HF sensors are more sensitive and detects all type of movement. This makes them ideal for detection of humans and vehicles. The HF waves can detect through walls, windows and doors, which is something that needs to be considered when choosing the right sensor for the application.

# AN10<sup>®</sup> range - wireless sensors

Designed to control lighting, heating, ventilation and air conditioning (HVAC), the AN10<sup>®</sup> wireless system can operate either as a stand-alone control system or as an integral part of a new or existing lighting control system. What makes the AN10<sup>®</sup> unique is that the connection between sensor and receiver is wireless. This eliminates the need for expensive wiring. It also provides great flexibility because there are no limitations on increasing or decreasing the sensor system as required. This is especially advantageous for large areas that require flexibility to adapt to changing space requirements. Typical applications include open-plan offices, sports halls and other large commercial premises. The AN10<sup>®</sup> is also ideal for cultural buildings, religious institutions, notable landmarks and other similar structures where aesthetic requirements and technical complexities make it impossible to lay wires or cables to control lighting.

## Wireless lighting control

All radio frequency (RF) components need power (AC 230V / 50Hz) and these are often easily available in building installations. Only the wired control connection for dimming (DALI /1-10V) and switching will be replaced by RF.

- 868 MHz broadband
- European harmonized frequency range (SRD- band)
- Short range device with impulse information
- RF output power < 10mW
- Operation range up to 30m (open area)
- Patent AN10<sup>®</sup> technology compatible to all AN10<sup>®</sup> components
- 4-step coded RF transmission
- All components are “transceiver” (transmitter and receiver in one)
- Mesh-Network Topography

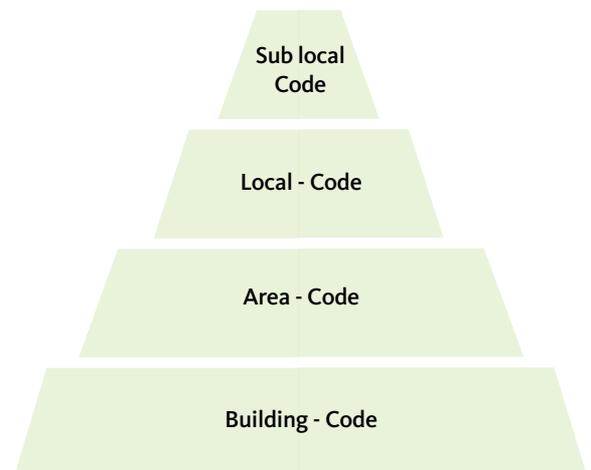
AN10<sup>®</sup> technology is an innovative control system for professional lighting control. Depending on conditions the operation range differs on building, installation environments and other RF application in same area.

The professional RF transmission technology ensures a reliable functionality once the system is set up.

The mesh network will also broadcast information of different lighting groups.

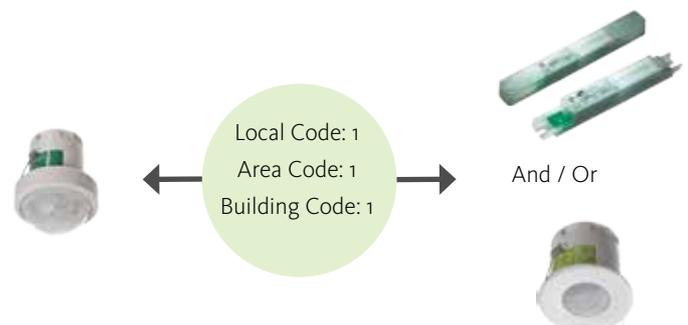
## AN10<sup>®</sup> – a wireless alternative

The innovative coding system protects other wireless applications on same frequency range. The coding system can also be used to group or re-group sensors and receivers for light scene arrangements.



All devices have the same coding for plug and play.

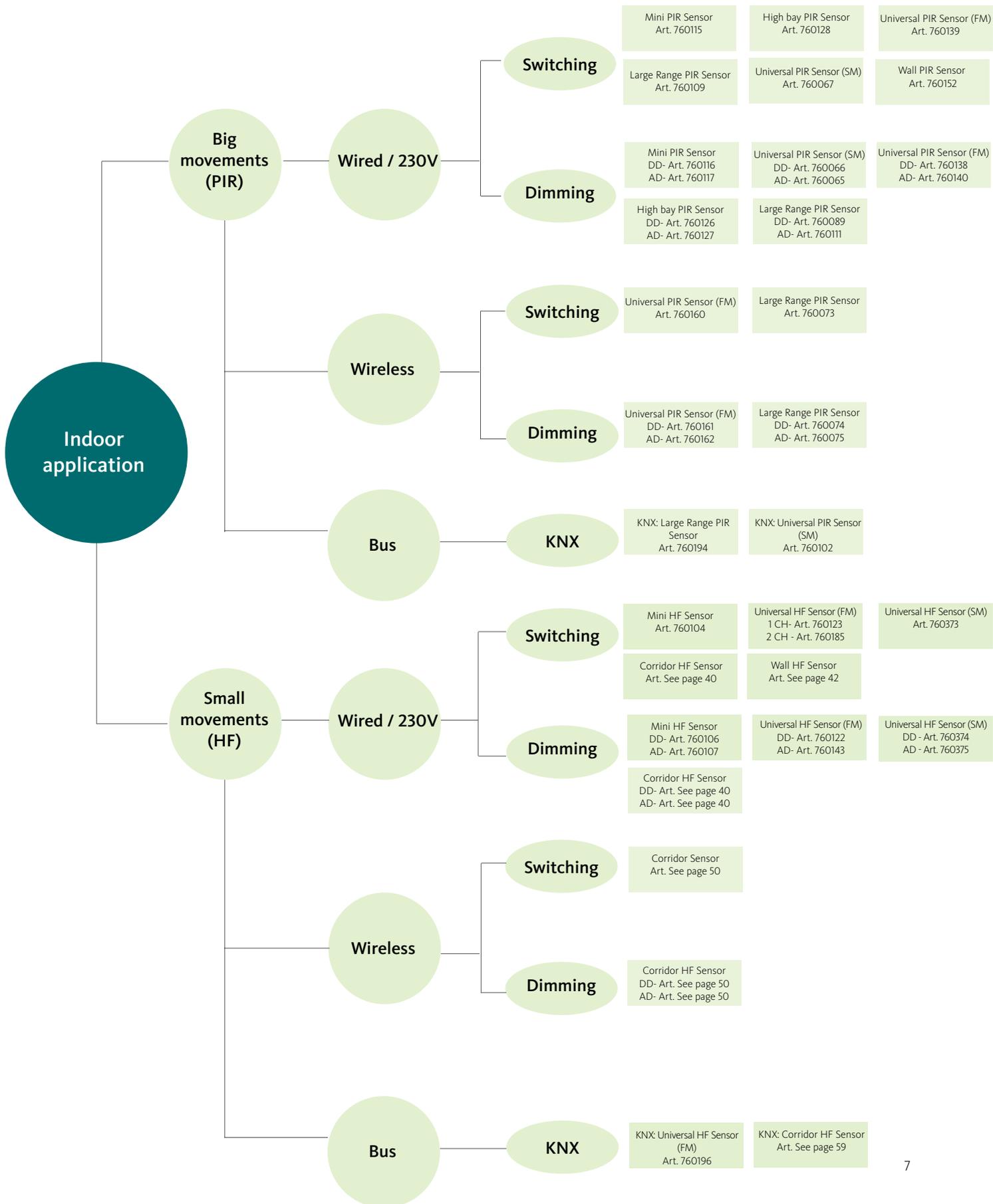
All components which should talk to each other need the same coding. Different codes can easily be grouped.





**Bright idea:** KNX sensors enable you to connect the facility's technical components, such as lighting, heating, and ventilation.

# How do I choose the right sensor?



# Lighting control in offices

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## The challenge

An office consists of different types of areas like open-plan cubicles, fixed offices, meeting rooms and corridors. One of the challenges when planning lighting control in an office is to ensure that even small movements are detected. The sensors must also be adequately placed so that there are no blind-spots, and unwanted detection needs to be minimised. An efficient lighting control system for offices must also be flexible enough to adapt to changes in office space use over time.

Sensors must ensure minimum lighting levels required for office work, but also be able to dim lighting to take full advantage of available natural light. In addition, sensors must be compatible with today's luminaires as well as those that will be used in the future. For optimal control with true presence detection, sensors must be equipped with two channels – one to control HVAC systems and the other to control the lighting.

## The solution

The Aura Light sensor range solves all of these office lighting challenges. A single sensor from Aura Light provides 100% presence detection for small office areas, such as a typical

three-by-three-metre office module. The constant light stepless dimming function (daylight linking function) in all of our sensors ensure the required lux level, considering both available natural light as well as artificial light from the luminaires.

## Choices & recommendations

It is important to consider client's requirements for dimmable office lighting. If dimming is required, then the next step is to determine which dimming technology, DSI/DALI or 1-10 V, that best suits the client needs. Aura Light offers a full range of both technologies. In installations with older non-dimmable luminaires we still recommend our dimming sensors, since this offers flexibility for dimming in the future, at a small additional cost. Our wireless AN10® range is a great choice if you want to adapt the system to changes in office space without having to re-wire.

A PIR sensor is preferred in areas with a lot of movement, for example cafeteria or corridor, while an HF sensor is the best solution for offices with less movements.

For open office environments where partitions, furnitures and plants are used to separate work places, we recommend our HF sensors, since they detect presence behind such obstacles.



### HF & PIR Universal Sensor

- Detection range PIR 360° / Ø 7 m at ceiling height 2.8 m and HF 360° / Ø 16 m
- Available in 1-10V, DALI, KNX and AN10® wireless versions
- Presence detection and daylight linking
- Invisible mounting due to low profile (3,7 mm)
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Easy installation by factory setting and remote control adjustment



### PIR Large range Sensor

- Selectable detection area of 360/270/180/90°
- Available in on/off, 1-10V, DALI, KNX and wireless AN10® versions
- Presence or motion detection selectable
- Special designed lens for reliable detection of high ceilings
- Semi- and fully automatic function
- Detection range separation
- Stepless dimming level, delay time and detection sensitivity
- Easy installation by factory setting and remote control adjustment

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## Accessories



UNLCDHS  
Art. 760136

### Profi-handset

- For advanced programming of all functions of the Switcher, Dimmers and AN10® range
- LCD display for clear programming
- Settings can be saved as macros with guiding names



DBB  
Art. 760132

### Ceiling bracket, small

- Bracket for surface mounted installation
- Supplied with spacer ring with room for extra cabling when the sensor can't be flush mounted



UHS7  
Art. 760137

### Remote control, user

- For recall of light scenes , on/off dim up & down function

# Lighting control in industrial areas

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## The challenge

There are many different types of industrial environments. These may include production areas, warehouses, loading areas, assembly areas, corridors and office spaces. Most of the spaces are subject to the movement of people, rotating machinery, conveyor belts and small vehicles. Managing lighting in industrial environments calls for presence detection of both people moving in the spaces as well as the machinery and vehicles they operate.

Other challenges in these types of environments are the high ceiling heights and that there are limited, or no natural light. Sensors must meet the required minimum lighting levels according to safety standards, and take advantage of any available natural light. An efficient lighting control system for industrial facilities must also be flexible enough to adapt to changes in the use of the facility over time.

## The solution

The Aura Light sensor range solves all of these industrial lighting challenges. The constant light stepless dimming function (daylight linking function) in all of our sensors ensure

the required lux level, considering both available natural light and artificial light from the luminaires. We offer a full range of both PIR and HF sensors for ceiling heights up to 15 meters. Both wired and wireless solutions are available depending on requirements and installation preferences.

## Choices & recommendations

If a dimmable installation is preferred, the next step is to determine which dimming technology, DSI/DALI or 1-10V, that best suits the needs. Aura Light offers a full range of both technologies. In installations with older non-dimmable luminaires, we still recommend our dimming sensors, since this offers flexibility for dimming in the future, at a small additional cost.

For presence detection of people in areas with machinery and equipment, we recommend the Aura Light's Large Range PIR sensors with remote control and mounting bracket. For warehouses, storage areas and corridors, we recommend the Aura Corridor HF sensor with remote control and mounting bracket.



### PIR Universal Sensor

- Detection range 360° / Ø 7 m at ceiling height 2.8 m
- Available in on/off, 1-10V, DALI or wireless AN10® versions
- Presence detection and daylight linking
- Invisible mounting due to low profile (3.7 mm)
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Easy installation by factory setting and remote control adjustment



### PIR Large Range Sensor

- Detection range: Ø 40 m at ceiling height 15 m and Ø 8 m at a ceiling height 3 m.
- Available in on/off, 1-10V, DALI or wireless AN10® versions
- Presence detection and daylight linking
- Suitable for large operation range
- Semi- and fully automatic function
- Detection area separation
- Stepless dimming level, delay time and detection sensitivity
- Easy installation by factory setting and remote control adjustment



### HF Corridor Sensor

- Detection range at 2.8 m is up to 30 X 6 m
- Presence detection and daylight linking
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Available versions: on/off, DALI, 1-10V and AN10®
- Easy installation by factory setting and remote control adjustment

## Accessories



### Profi-handset

- For advanced programming of all functions of the Switcher, Dimmers and AN10® range
- LCD display for clear programming
- Settings can be saved as macros with guiding names

UNLCDHS  
Art. 760136



### Ceiling bracket, large

- Bracket only for Corridor Sensor
- Bracket for surface mounted installation
- Supplied with spacer ring with room for extra cabling when the sensor can't be flush mounted

MWS3A-DBB  
Art. 760133



### Wall bracket, large

- Bracket for Corridor Sensors

MWS3A-DBB-WBRKT  
Art. 760080



### Ceiling bracket, small

- Universal bracket
- Bracket for surface mounted installation
- Supplied with spacer ring with room for extra cabling when the sensor can't be flush mounted

DBB  
Art. 760132



### Wall bracket, small

- Universal bracket for all models except Corridor Sensor series
- Bracket for surface mounted installation

DBB-WBRKT  
Art. 760081

# Lighting control in warehouses



## The challenge

Warehouse facilities are often large, and some parts of the areas are utilised more frequently than others. The main objective when planning lighting control in warehouses is to reduce the energy costs, without compromising safety.

Challenges in these types of environments is the high ceiling height and that there is limited, or no natural light. Sensors must meet the minimum safety standards for lighting levels. An efficient lighting control system for warehouse facilities must also be flexible enough to adapt to changes in the use of the facility over time. It is important to consider issues regarding maintenance. Due to the relatively high level of dirt in a warehouse, a maintenance-free control system is recommended. In addition, it must be possible to turn on and adjust the sensors from a convenient distance on the warehouse floor.

## The solution

The Aura Light sensor range solves all of these challenges. Our efficient lighting control systems ensure that aisles where people or vehicles are moving are properly lit, while reducing energy cost. The constant light stepless dimming function in all of our sensors ensures the required lux level. Both wired and wireless solutions are available depending on requirements and installation preferences.

## Choices & recommendations

Warehouse operators often use the existing non-dimmable luminaires for as long as possible. In these installations we still recommend our dimming sensors, since this offers flexibility for dimming in the future, at a small additional cost. When a dimmable installation is preferred, the next step is to determine which dimming technology, DSI/DALI or 1-10V, that best suits the needs. Aura Light offers a full range of both technologies.

All of our dimming sensors can be used to control the lighting in three steps. When presence is detected, an illuminance level of 300 lux one metre above the floor is required. When no presence is detected the lights are dimmed to a defined low level of, for example, 125 lux for a pre-set time. After this pre-set time the lighting is dimmed to a constant low level of for example 50 lux. This orientation light function is only possible with suitable luminaires. Please contact Aura Light for a list of approved luminaires.

Aura Light offers a wide range of sensors for various installation heights.

INSTALLATION HEIGHT	DETECTION AREA	PRODUCT
8 m	16 x 6 m	Corridor HF Sensor
15 m	5 x 5 m	High bay PIR sensor
15 m	Ø 40 m	Large range PIR sensor



### PIR Large range Sensor

- Detection range: Ø 40 m at ceiling height 15 m and Ø 8 m at a ceiling height 3 m
- Available in on/off, 1-10V, DALI or wireless AN10® versions
- Presence detection and daylight linking
- Suitable for large operation range
- Semi- and fully automatic function
- Detection range separation
- Stepless dimming level, delay time and detection sensitivity
- Easy installation by factory setting and remote control adjustment



### PIR High bay Sensor

- Detection range up to 5.1 x 5.1 m at ceiling height 15 m
- For high bay applications
- Available in on/off, 1-10V, DALI version
- Presence detection and daylight linking
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Easy installation by factory setting and remote control adjustment



### HF Corridor Sensor

- Presence detection and daylight linking
- Detection range up to 30 m at mounting height 2.8 m
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Remote controlled for professional commissioning
- Available versions: on/off, DALI, 1-10V or AN10®
- Factory preset for plug & play



### HF Wall Sensor

- Presence sensor for wall bracket installation
- Adjustable detection range up to 30 m
- Fully automatic function
- Remote controlled for professional commissioning
- Available versions: on/off
- Factory preset for plug & play

## Accessories



UNLCDHS  
Art. 760136

### Profi-Handset

- For advanced programming of all functions of the Switcher, Dimmers and AN10® range
- LCD display for clear programming
- Settings can be saved as macros with guiding names



MWS3A-DBB  
Art. 760133

### Ceiling bracket, large

- Bracket only for Corridor Sensor
- Bracket for surface mounted installation
- Supplied with spacer ring with room for extra cabling when the sensor can't be flush mounted



MWS3A-DBB-WBRKT  
Art. 760080

### Wall bracket, large

- Bracket for Corridor Sensors



DBB  
Art. 760132

### Ceiling bracket, small

- Universal bracket for all models except Corridor Sensor series
- Bracket for surface mounted installation
- Supplied with spacer ring with room for extra cabling when the sensor can't be flush mounted



DBB-WBRKT  
Art. 760081

### Wall bracket, small

- Universal bracket for all models except Corridor Sensor series
- Bracket for surface mounted installation

# Lighting control in cold areas

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## The challenge

Clearly the main challenge in cold areas is to deal with low temperatures. Standard sensors usually fail at  $-20^{\circ}\text{C}$  due to damage to sensor components. Cold Area Sensors must therefore be able to control light in spaces where temperatures down to  $-30^{\circ}\text{C}$  is the norm.

Protecting the light sources is paramount in a cold area. It is important not to turn the lights on and off, since this significantly reduces the lifetime of the light sources. Another challenge in cold storage area lighting is humidity, which is created due to constant opening and closing of the storage room door. The moisture created from the mixture of warm and cold air can cause ice to form on the optical lens of the sensors.

## The solution

The Aura Light sensor range for cold areas addresses all of these challenges. Our cold area sensors are developed and manufactured with special components designed to operate at temperatures below  $-20^{\circ}\text{C}$ . To prevent humidity inside the cold storage area and subsequent icing of the sensor lenses, additional gaskets seal the sensor lens frame according to protection class IP65. The sensor lens has five separate PIR sensors to detect even small heat sources.

## Choices & recommendations

Aura Light offers a special sensor for cold storage applications. This PIR Cold Area Sensor has been specially developed for cold areas.

To provide a soft start for the light sources we recommend a dimmable solution with 1-10V or DALI controlled ballasts. This prolongs the lifetime of all types of light sources.



### PIR Cold Area Sensor

- Designed for very low temperature (down to -30 °C)
- Detection range Ø 40 m at ceiling height 15 m
- IP65
- Outdoor application in protected installation
- Presence or motion detection selectable
- Special designed lens for reliable detection of high ceilings
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity

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## Accessories



UNLCDHS  
Art. 760136

### Profi-handset

- For advanced programming of all functions of the Switcher, Dimmers and AN10® range
- LCD display for clear programming
- Settings can be saved as macros with guiding names



LT30-IP65  
Art. 760070

### Ceiling bracket

- Bracket for Cold Area Sensors

# Lighting control in parking areas

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## The challenge

Lighting is a significant operating expense for parking areas. Large areas are lit up, often 24 hours per day, even in times of no motion. The main objective when planning lighting control in parking areas is to reduce energy costs, without compromising the sense of security. Sensors must meet the minimum lighting levels required according to safety standards, and take advantage of any available natural light.

Managing lighting in parking areas calls for motion detection of both people moving as well as the vehicles they operate. Modern cars are very well insulated and when cold started they do not emit any heat which makes it impossible for a PIR sensor to sense the movement. Sensor placement is also a challenge in parking areas, where it is important to consider all possible flows of people and vehicles. The relatively high level of dirt and dust in a parking areas can result in costly maintenance if the wrong type of sensors are selected.

## The solution

Aura HF sensors address all of these challenges for both visible and concealed sensor installations. The use of concealed installations is advantageous because the sensor is protected from accidental contact or damage.

## Choices & recommendations

Because many people feel a high level of insecurity in parking areas, it is important that no areas are completely dark, but rather left at a low lighting level when no presence is detected. We recommend dimmable luminaires and sensors in parking areas. All of our dimming sensors can be used to control the lighting in two or three steps. When presence is detected, an illuminance level of for example 100 lux is required. When no presence is detected, the lights are dimmed to a defined low level of, for example, 50 lux (depending on luminary system).

HF sensors are virtually insensitive to dirt, thereby offering a distinct advantage over PIR sensors, which can be impaired in dusty or dirty environments due to accumulation of airborne particles on the optical lens. We therefore recommend HF sensors that are not sensitive to dust in these types of areas.



### HF Corridor Sensor

- Detection range up to 30 m at mounting height 2.8 m
- Presence detection and daylight linking
- Daylight linking function
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Remote controlled for professional commissioning
- Available in on/off, DALI, 1-10V, KNX and wireless AN10® version
- Factory preset for plug & play



### PIR Large range Sensor

- Detection range: Ø 40 m at ceiling height 15 m and Ø 8 m at a ceiling height 3 m
- Available in on/off, 1-10V, DALI, KNX and wireless AN10® versions
- Presence detection and daylight linking
- Suitable for large operation range
- Semi- and fully automatic function
- Detection range separation
- Stepless dimming level, delay time and detection sensitivity
- Easy installation by factory setting and remote control adjustment



### Universal PIR sensor, Surface Mounted

- Detection range 360°/Ø 7 m at ceiling height 2.8 m
- Available in on/off, 1-10V, DALI
- Presence detection and daylight linking
- Perfect solution for hard ceilings or limited built-in options
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Easy installation by factory setting and remote control adjustment

## Accessories



### Profi-Handset

- For advanced programming of all functions of the Switcher, Dimmers and AN10® range
- LCD display for clear programming
- Settings can be saved as macros with guiding names

UNLCDHS  
Art. 760136



### Ceiling bracket, large

- Bracket only for Corridor Sensor
- Bracket for surface mounted installation
- Supplied with spacer ring with room for extra cabling when the sensor can't be flush mounted

MWS3A-DBB  
Art. 760133



### Wall bracket, large

- Bracket for Corridor Sensors

MWS3A-DBB-WBRKT  
Art. 760080



### Ceiling bracket, small

- Universal bracket for all models except Corridor Sensor series
- Bracket for surface mounted installation
- Supplied with spacer ring with room for extra cabling when the sensor can't be flush mounted

DBB  
Art. 760132



### Wall bracket, small

- Universal bracket for all models except Corridor Sensor series
- Bracket for surface mounted installation

DBB-WBRKT  
Art. 760081

# Lighting control in public restrooms

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## The challenge

Public restrooms pose unique lighting challenges due to variations in space and traffic. Standard toilet partitions generally comprise most of the space, subdividing the space into small zones. In many restrooms there are also no-detection zones, that have to be considered both when selecting sensor technology and placement. In addition, public restroom ceilings are made of hard drywall or plaster, which makes it difficult to install most sensors.

## The solution

Aura HF sensors address all of these challenges and are available for both ceiling and wall installation. HF sensors are an excellent choice for public restrooms, because they detect the smallest of movements, even through partition walls and doors. The adjustable time delay feature of Aura Light's HF sensors provide maximum flexibility and helps you save energy. A shorter time delay provides greater energy savings, but may turn off the lights prematurely. A longer time delay ensures that the light will not turn off when people are still present.

## Choices & Recommendations

Aura Light HF sensors are ideal for use in public restrooms as they detect even very small movements. We recommend the Universal HF Sensor. The IP44-rated Universal HF Sensor is available in three different versions: On/off, 1-10V DALI and AN10®.

This sensor can be operated in fully automatic or semi-automatic mode. In fully automatic mode, the sensors automatically turn lighting on and off according to demand, whether the physical presence of people or the availability of natural light. In semi-automatic mode, lighting must be turned on manually but the sensors turns off the lighting automatically.



### HF Wall Sensor

- Adjustable detection range up to 30 m
- Presence and motion sensor in one
- Fully automatic function
- Remote controlled for professional commissioning
- Available versions: on/off
- Factory Preset for plug & play



### HF Universal Sensor, Surface Mounted

- Detection range up to 16 m at mounting height 2.8 m
- Low convex profile, for nearly invisible installation
- Presence and motion sensor in one
- Daylight linking function
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Remote controlled for professional commissioning
- Available versions: on/off, DALI, 1-10V or AN10®
- Factory Preset for plug & play



### PIR Wall Sensor, E-3003/4/5

- Presence and motion sensor in one
- Detection range up to 5 m
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Remote controlled for professional commissioning for the dim version
- Available versions: on/off and conventional dimming
- Supplied with white front panel, bronze and brushed steel available as accessories

## Accessories



UNLCDHS  
Art. 760136

### Profi-Handset

- For advanced programming of all functions of the Switcher, Dimmers and AN10® range
- LCD display for clear programming
- Settings can be saved as macros with guiding names



GIPB/NRD  
Art. 760156

### Bracket for surface mounted installation

- Bracket for wall sensors



DBB  
Art. 760132

### Ceiling bracket, small

- Universal bracket for all models except Corridor Sensor series
- Bracket for surface mounted installation
- Supplied with spacer ring with room for extra cabling when the sensor can't be flush mounted



DBB-WBRKT  
Art. 760081

### Wall bracket, small

- Universal bracket for all models except Corridor Sensor series
- Bracket for surface mounted installation

# Getting lighting control right

To ensure high quality lighting, be sure to adapt lighting to meet the needs of the actual space and the people using it. Whether lighting an open office landscape, warehouse, cold area, parking area or a combination of these spaces, Aura Light has the sensors for your needs.

- 

**detection 360°**  
X:7m Y:2.8m

Detection range 360°. X is the range and Y is the ceiling height
- 

**detection range**  
X:22m Y:6m

Detection range. X is the length and Y is width
- 

**64mm**

The size of the cut out hole
- 

**230VAC +/-10%  
50Hz**

Power system
- 

**+35°C  
-10°C**

Minimum and maximum ambient temperature
- 

**5-95%**

Humidity range
- IP40**

Degree of Ingress Protection. The first number indicates the measure of protection against solids. The second number indicates the measure of protection against liquids
- 

**CLASS II**

Class II means double insulation. No earth connection required
- 

**ABS + PC/ABS**

Low flammability materials
- 

**10A**

Max load regardless of light source is 10A
- CE**

All necessary certification for Europe existing
- 

**5.8GHz  
microwave frequency**

The microwave frequency where the product operate (only for HF sensors)
- 

**868MHz  
radio frequency**

The radio frequency that the sensors operates (only for wireless AN10®)
- KNX**

KNX - a bus system that connects the facility's technical components
- 

**Minus 30°C**

Sensor works in temperatures down to -30°C

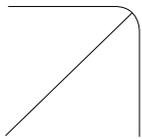


**Bright idea:** Maximize energy efficiency by using a modern luminaire with a LED light source and a sensor.



# PIR: Universal Sensor, Recessed

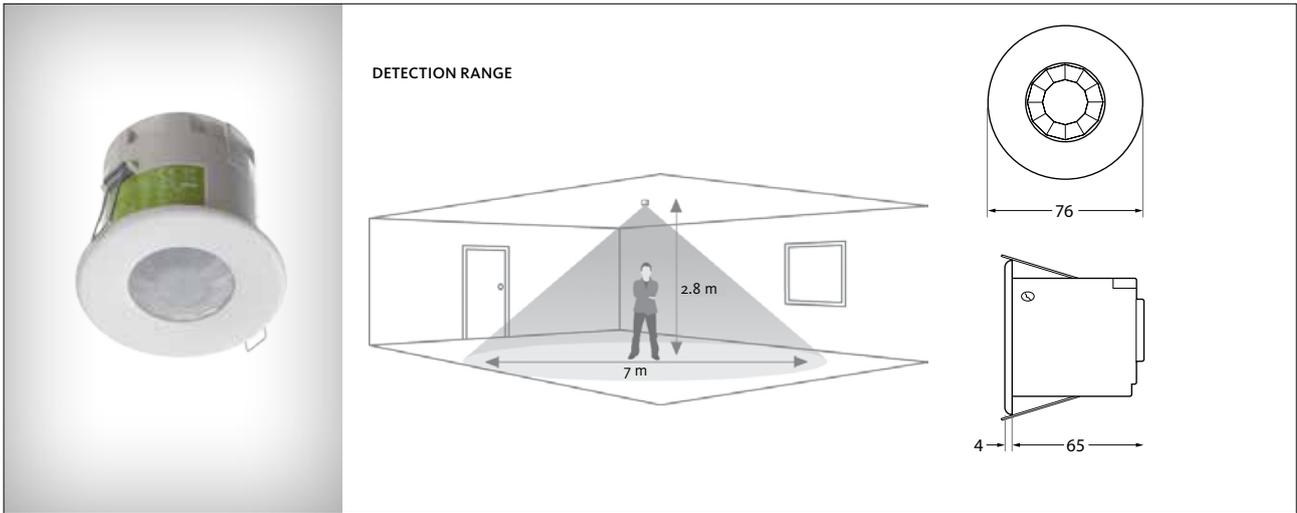
Nearly invisible sensor with large detection range for most applications



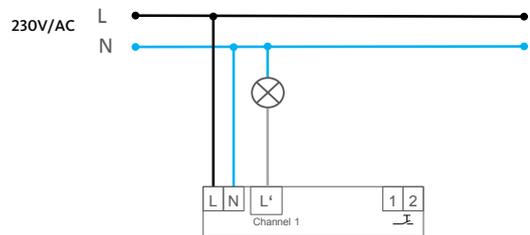
This nearly invisible Universal PIR recessed sensor fulfills many type of lighting control needs in buildings with soft ceilings. The very flat lens design allows a big detection range of 40 m<sup>2</sup> which covers small offices, floors, locker & store rooms for example. This model is the universal answer for perfect lighting control in offices, hotels and public buildings.

- Detection range 360°/Ø 7 m at ceiling height 2.8 m
- Available in on/off, 1-10V, DALI or wireless AN10® versions
- Presence detection and daylight linking
- Invisible mounting due to low profile (3.7 mm)
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Easy installation by factory setting and remote control adjustment

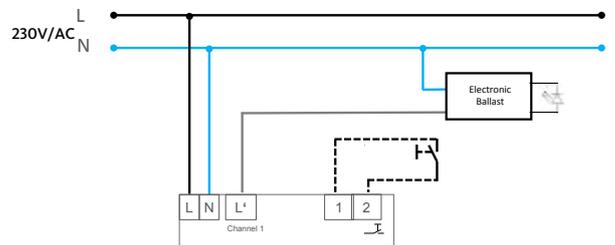




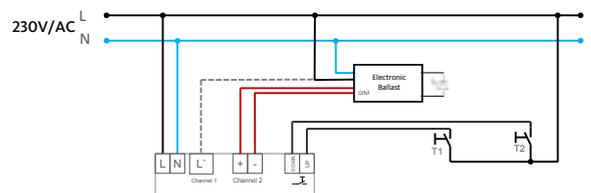
PRODUCT	EBDSPIR	EBDSPIR-PRM	EBDSPIR-DD	EBDSPIR-AD
<b>Article no.</b>	<b>760180</b>	<b>760139</b>	<b>760138</b>	<b>760140</b>
<b>ELECTRICAL DATA</b>				
Sensor type	PIR	PIR	PIR	PIR
Sensor model	-	On/off	DALI/DSI	1-10V
Voltage	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz
Max. load	6 A	10 A	10 A	10 A
Max. no. of ballasts	6	20	20 if only channel 2 is used. (Otherwise 10)	10
IP class	IP 40	IP 40	IP 40	IP 40
Power consumption passive	0,5 W	0,87 W	0,6 W	0,3 W
Power consumption active	0,6 W	0,89 W	0,8 W	0,7 W
Operation temperature	-10°C- +35°C	-10°C- +35°C	-10°C- +35°C	-10°C- +35°C
<b>FEATURES</b>				
Detection range	Ø: 7 m / h: 2,8 m height	Ø: 7 m / h: 2,8 m height	Ø: 7 m / h: 2,8 m height	Ø: 7 m / h: 2,8 m height
Channel 1 on/off, (non-floating contact)	Yes	Yes	Yes	Yes
Channel 2 dim	-	-	DALI/DSI	1-10V
Push button input	-	Yes	Yes	Yes
Motion detection by default	Yes	Yes	Yes	Yes
Presence detection by setting	-	Yes	Yes	Yes
Semi-automatic mode	-	Yes	Yes	Yes
Adjustable sensitivity	-	Yes	Yes	Yes
Lux switching on & off	Yes	Yes	Yes	Yes
Separate sensitivity for active & passive mode	-	Yes	Yes	Yes
Detection indication	-	Yes	Yes	Yes
Setting indication	-	Yes	Yes	Yes
Delay time, stepless	10 sec - 30 min	10 sec - 99 min	10 sec - 99 min separate/channel	10 sec - 99 min separate/channel
Dimmer memory (last manual setting)	-	-	Yes	Yes
Corridor function	-	-	Yes	Yes
Auto burn-in of fluorescent tubes	-	-	Yes	Yes
<b>SETTING</b>				
Control knob sensor	Yes	-	-	-
Remote control	-	UNLCDHS	UNLCDHS	UNLCDHS
Remote control, user	-	UHS5	UHS5	UHS5
<b>GENERAL DATA</b>				
Dimensions (Diameter/ depth mm)	76/65	76/65	76/65	76/65
Product weight (kg)	0,13	0,13	0,15	0,15
Colour	White RAL 9003	White RAL 9003	White RAL 9003	White RAL 9003
Guarantee	5 years	5 years	5 years	5 years
<b>ACCESSORY</b>				
Ceiling mounting bracket	DBB	DBB	DBB	DBB
Wall mounting bracket	DBB-WBRKT	DBB-WBRKT	DBB-WBRKT	DBB-WBRKT



PRM VERSION- AUTOMATIC MODE



PRM VERSION- SEMI AUTOMATIC MODE



DIM VERSION WITH MANUAL DIMMING OPTION

**ACCESSORIES**



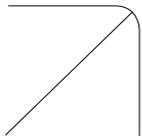
**CEILING BRACKET, SMALL DBB ART. 760132**



**WALL BRACKET, SMALL DBB-WBRKT ART. 760081**

# PIR: Universal Sensor, Surface Mounted

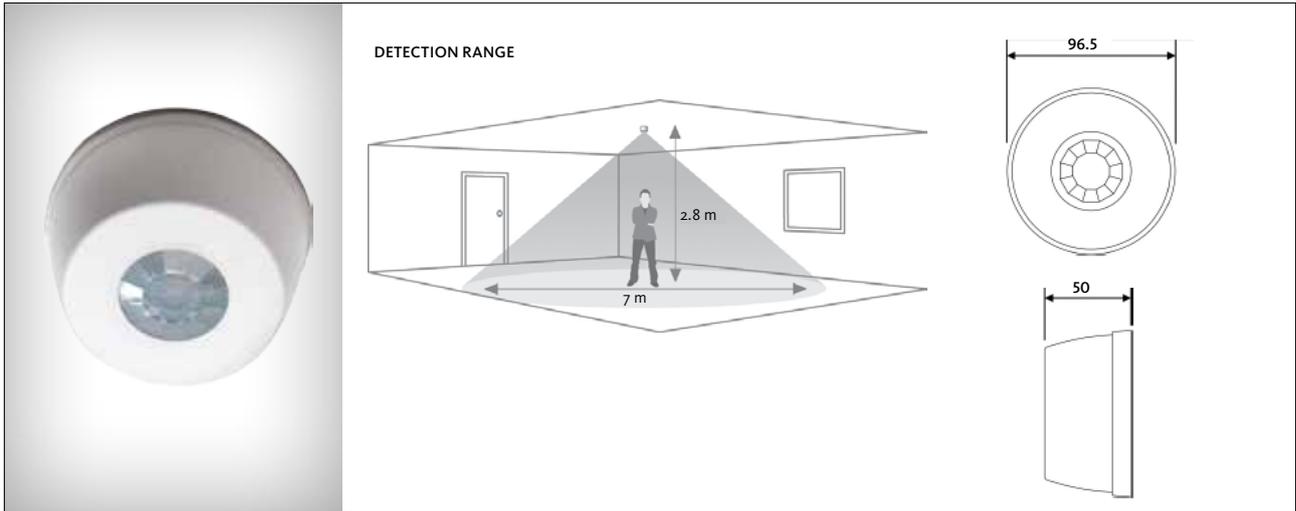
A surface mounted sensor for hard ceilings



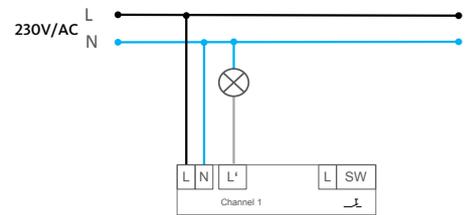
This Universal PIR surface mounted sensor fulfills many type of lighting control needs in buildings with hard ceilings. The very flat lens design allows a big detection range of 40 m<sup>2</sup> which covers for example small offices, floors, locker & store rooms. This model is the universal answer for perfect lighting control in offices, hotels and public buildings.

- Detection range 360°/Ø 7 m at ceiling height 2.8 m
- Available in on/off, 1-10V, DALI
- Presence detection and daylight linking
- Perfect solution for hard ceilings or limited built-in options
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Easy installation by factory setting and remote control adjustment

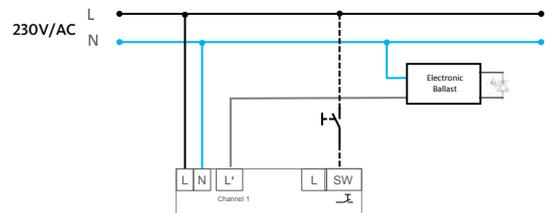




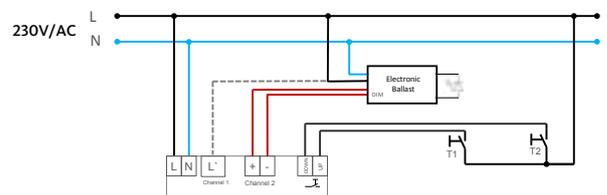
PRODUCT	EBDSM-PRM	EBDSM-DD	EBDSM-AD
Article no.	760067	760066	760065
<b>ELECTRICAL DATA</b>			
Sensor type	PIR	PIR	PIR
Sensor model	On/off	DALI/DSI	1-10V
Voltage	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz
Max. load	10 A	10 A	10 A
Max. no. of ballasts	20	20 if only channel 2 is used. (otherwise 10)	10
IP class	IP 40	IP 40	IP 40
Power consumption passive	0.82 W	0.3 W	0.5 W
Power consumption active	0.84 W	0.9 W	1.1 W
Operation temperature	-10°C- +35°C	-10°C- +35°C	-10°C- +35°C
<b>FEATURES</b>			
Detection range	Ø 7 m / 2.8 m height	Ø 7 m / 2.8 m height	Ø 7 m / 2.8 m height
Channel 1 on/off, (non-floating contact)	Yes	Yes	Yes
Channel 2 dim	-	DALI /DSI	1-10V
Push button input	Yes	Yes	Yes
Motion detection by default	Yes	Yes	Yes
Presence detection by setting	Yes	Yes	Yes
Semi-automatic mode	Yes	Yes	Yes
Presence detection by setting	Yes	Yes	Yes
Adjustable sensitivity	Yes	Yes	Yes
Lux switching on & off	Yes	Yes	Yes
Separate sensitivity for active & passive mode	Yes	Yes	Yes
Detection indication	Yes	Yes	Yes
Setting indication	Yes	Yes	Yes
Time delay, stepless	10 sec-99 min	10 sec-99 min	10 sec-99 min
Dimmer memory (last manual level)	-	Yes	Yes
Corridor function	-	Yes	Yes
Auto burn-in of fluorescent tubes	-	Yes	Yes
<b>SETTING</b>			
Control knob sensor	-	-	-
Remote control	UNLCDHS	UNLCDHS	UNLCDHS
Remote control, user	UHS 5	UHS 5	UHS 5
<b>GENERAL DATA</b>			
Dimensions (Diameter/depth mm)	96.5/50	96.5/50	96.5/50
Product weight (kg)	0.15	0.15	0.15
Colour	White RAL 9003	White RAL 9003	White RAL 9003
Guarantee	5 years	5 years	5 years
<b>ACCESSORY</b>			
Ceiling mounting bracket	-	-	-
Wall mounting bracket	-	-	-



PRM VERSION- AUTOMATIC MODE



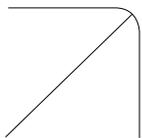
PRM VERSION- SEMI AUTOMATIC MODE



DIM VERSION WITH MANUAL DIMMING OPTION

# PIR: Large Range Sensor

The perfect sensor for high ceilings and large detection areas



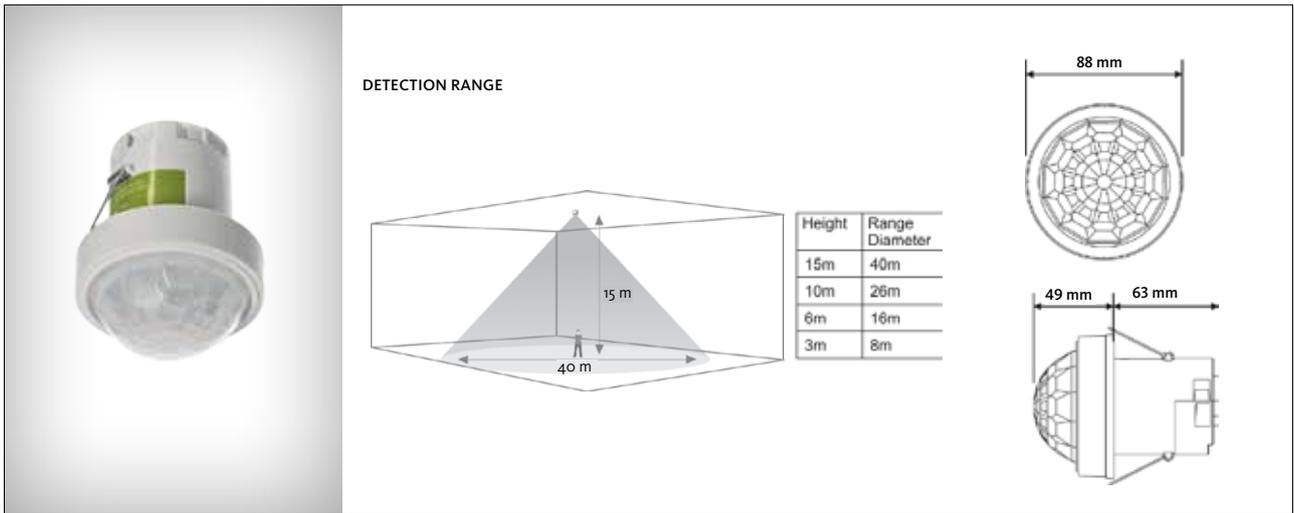
PIR sensor for installation heights of up to 15 m, with a corresponding detection range of 40 m. The covered detection range can be adjusted to individual detection ranges like 360°/270°/180°/90° to match the specific needs.

It is the perfect product solution for all types of buildings with high ceilings like warehouses, production halls, sport centers, hotels and office buildings entries.

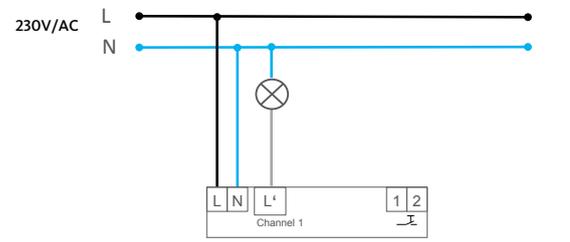
It is easy to control with the programmable handset. The dim versions include corridor function and automatic burn-in of fluorescent lamps in connection with new installations and replacements.

- Detection range 360°/Ø 40 m at ceiling height 15 m
- Available in on/off, 1-10V, DALI or wireless AN10® versions
- Presence or motion detection selectable
- Special designed lens for reliable detection of high ceilings
- Semi- and fully automatic function
- Detection range separation (90°/180°/270°/360°)
- Light level control for daylight linking up to 5 m mounting height
- Stepless dimming level, delay time and detection sensitivity
- Easy installation by factory setting and remote control adjustment

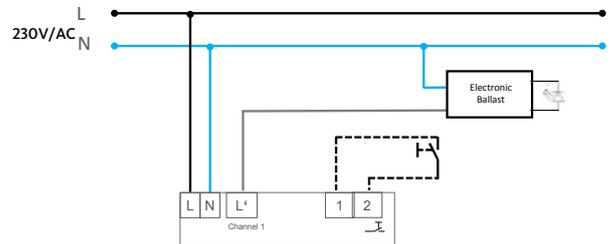




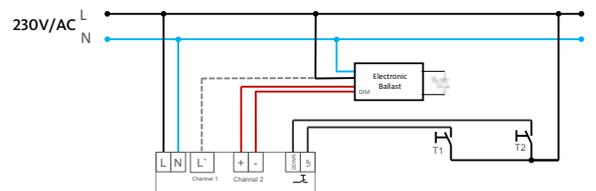
PRODUCT	EBDHS-PRM	EBDHS-DD	EBDHS-AD
<b>Article no.</b>	<b>760109</b>	<b>760089</b>	<b>760111</b>
<b>ELECTRICAL DATA</b>			
Sensor type	PIR	PIR	PIR
Sensor model	On/Off	DALI/DSI	1-10V
Article no.	760109	760089	760111
Voltage	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz
Max. load	10 A	10 A	10 A
Max. no. of ballasts	20	20 if only channel 2 is used. (otherwise 10)	10
IP class	IP 44	IP 44	IP 44
Power consumption passive	0.83 W	0.3 W	0.3 W
Power consumption active	0.85 W	0.8 W	0.8 W
<b>FEATURES</b>			
Detection range	Ø 40 m / 15 height	Ø 40 m / 15 height	Ø 40 m / 15 height
Channel 1 on/off, (non-floating contact)	Yes	Yes	Yes
Channel 2 dim	-	DALI / DSI	1-10V
Push button input	Yes	Yes	Yes
Motion detection by default	Yes	Yes	Yes
Presence detection by setting	Yes	Yes	Yes
Semi-automatic mode	Yes	Yes	Yes
Adjustable sensitivity	Yes	Yes	Yes
Lux switching on & off	Yes	Yes	Yes
Separate sensitivity for active & passive mode	Yes	Yes	Yes
Detection indication	Yes	Yes	Yes
Setting indication	Yes	Yes	Yes
Time delay, stepless	10 sec-99 min	10 sec-99 min	10 sec-99 min
Dimmer memory (last manual level)	-	Yes	Yes
Corridor function	-	Yes	Yes
Auto burn-in of fluorescent tubes	-	Yes	Yes
Selectable detection range 360°/270°/180°/90°	Yes	Yes	Yes
<b>SETTING</b>			
Control knob sensor	-	-	-
Remote control	UNLCDHS	UNLCDHS	UNLCDHS
Remote control, user	UHS 5 / UHS 6	UHS 5 / UHS 6	UHS 5 / UHS 6
<b>GENERAL DATA</b>			
Dimensions (Diameter/depth mm)	88/65	88/65	88/65
Product weight (kg)	0.15	0.20	0.20
Colour	White RAL 9003	White RAL 9003	White RAL 9003
Guarantee	5 years	5 years	5 years
<b>ACCESSORY</b>			
Ceiling mounting bracket	DBB	DBB	DBB
Wall mounting bracket	DBB-WBRKT	DBB-WBRKT	DBB-WBRKT



PRM VERSION- AUTOMATIC MODE



PRM VERSION- SEMI AUTOMATIC MODE



DIM VERSION WITH MANUAL DIMMING OPTION

ACCESSORIES



CEILING BRACKET, SMALL DBB ART. 760132



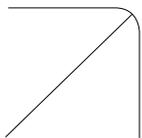
WALL BRACKET, SMALL DBB-WBRKT ART.760081

# Cold Area Sensor

The perfect sensor for cold environments



Photo: Vegafoto



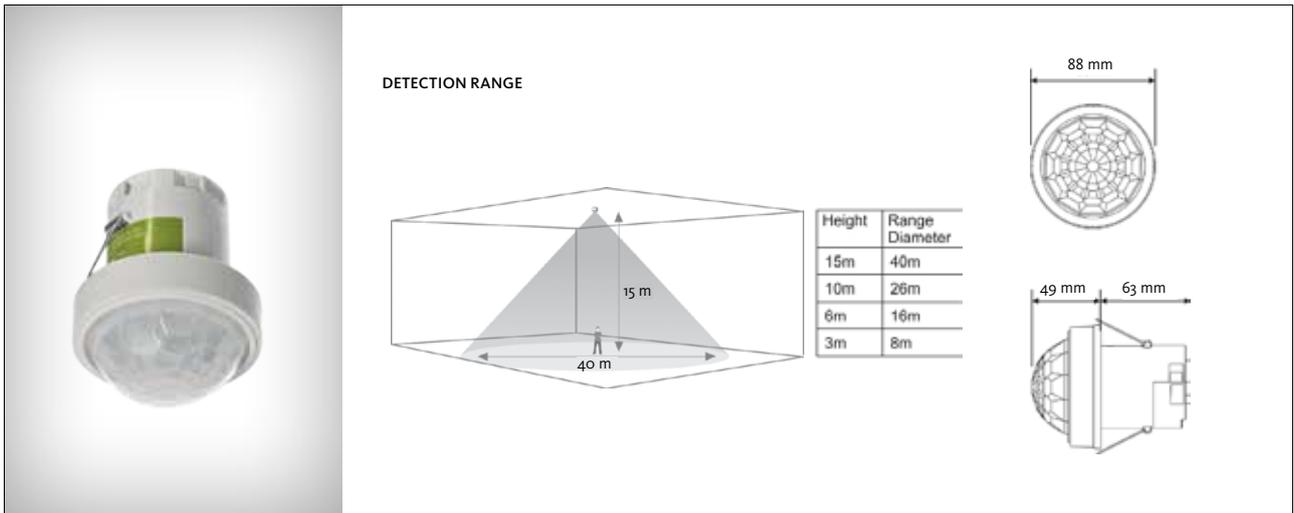
The Cold Area Sensor is a unique sensor developed for low temperature areas such as cold storage. This sensor works at a temperature of below  $-30^{\circ}\text{C}$ . Standard sensors usually stop working after  $-20^{\circ}\text{C}$ . This sensor has protected components which makes it durable for cold environments.

The Cold Area Sensor is developed for installation heights of up to 15 m, with a corresponding detection range of 40 m. The covered detection range can be adjusted to individual detection ranges like  $360/270/180/90^{\circ}$  by using a mechanical lens mask to match the specific needs.

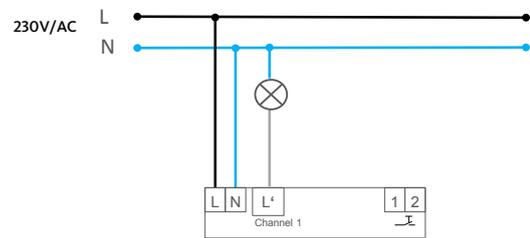
With the professional handset the setting can be adjusted upon an height of 10 m. The dim versions include corridor function and automatic burn-in of fluorescent lamps in connection with new installations and replacements.

- Detection range  $360^{\circ}/\varnothing$  40 m at ceiling height 15 m
- Developed especially for cold environments
- Available in on/off, 1-10V or DALI
- IP65
- Outdoor application in protected installation
- Presence or motion detection selectable
- Special designed lens for reliable detection of high ceilings
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Selectable detection range
- Easy installation by factory setting and remote control adjustment

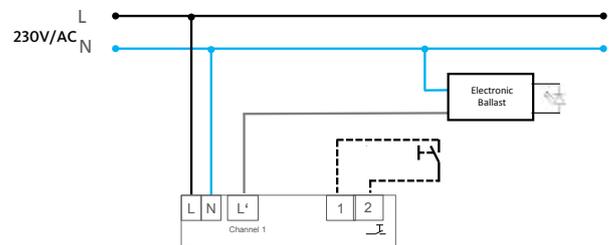




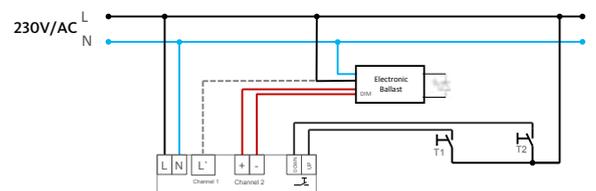
PRODUCT	EBDHS-PRM-LT30	EBDHS-DD-LT30	EBDHS-AD-LT30
<b>Article no.</b>	<b>760064</b>	<b>760063</b>	<b>760062</b>
<b>ELECTRICAL DATA</b>			
Sensor type	PIR	PIR	PIR
Sensor model	On/Off	DALI/DSI	1-10V
Article no.	760064	760063	760062
Voltage	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz
Max. load	10 A	10 A	10 A
Max. no. of ballasts	20	20 if only channel 2 is used. (otherwise 10)	10
IP class	IP 65	IP 65	IP 65
Power consumption passive	0.83 W	0.3W	0.3 W
Power consumption active	0.85 W	0.8 W	0.8 W
Operation temperature	-30°C - +35°C	-30°C - +35°C	-30°C - +35°C
<b>FEATURES</b>			
Detection range	Ø 40 m / 15 height	Ø 40 m / 15 height	Ø 40 m / 15 height
Channel 1 on/off, (non-floating contact)	Yes	Yes	Yes
Channel 2 dim	-	DALI /DSI	1-10V
Push button input	Yes	Yes	Yes
Motion detection by default	Yes	Yes	Yes
Presence detection by setting	Yes	Yes	Yes
Semi-automatic mode	Yes	Yes	Yes
Adjustable sensitivity	Yes	Yes	Yes
Lux switching on & off	Yes	Yes	Yes
Separate sensitivity for active & passive mode	Yes	Yes	Yes
Adjustable sensitivity - presence	Yes	Yes	Yes
Detection indication	Yes	Yes	Yes
Setting indication	Yes	Yes	Yes
Time delay, stepless	10 sec-99 min	10 sec-99 min	10 sec-99 min
Dimmer memory (last manual level)	-	Yes	Yes
Corridor function	-	Yes	Yes
Auto burn-in of fluorescent tubes	-	Yes	Yes
Selectable detection range 360°/270°/180°/90°	Yes	Yes	Yes
<b>SETTING</b>			
Control knob sensor	-	-	-
Remote control	UNLCDHS	UNLCDHS	UNLCDHS
Remote control, user	UHS 5 / UHS 6	UHS 5 / UHS 6	UHS 5 / UHS 6
<b>GENERAL DATA</b>			
Dimensions (Diameter/depth mm)	88/65	88/65	88/65
Product weight (kg)	0.15	0.20	0.20
Colour	White RAL 9003	White RAL 9003	White RAL 9003
Guarantee	5 years	5 years	5 years
<b>ACCESSORY</b>			
Ceiling mounting bracket	DBB	DBB	DBB
Wall mounting bracket	DBB-WBRKT	DBB-WBRKT	DBB-WBRKT



PRM VERSION- AUTOMATIC MODE



PRM VERSION- SEMI AUTOMATIC MODE



DIM VERSION WITH MANUAL DIMMING OPTION

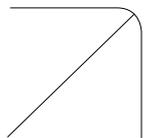
ACCESSORIES



BRACKET FOR COLD AREA SENSOR ART. 760070

# PIR: High bay Sensor

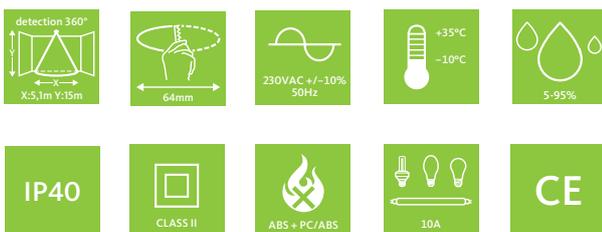
The perfect sensor for areas with high ceilings

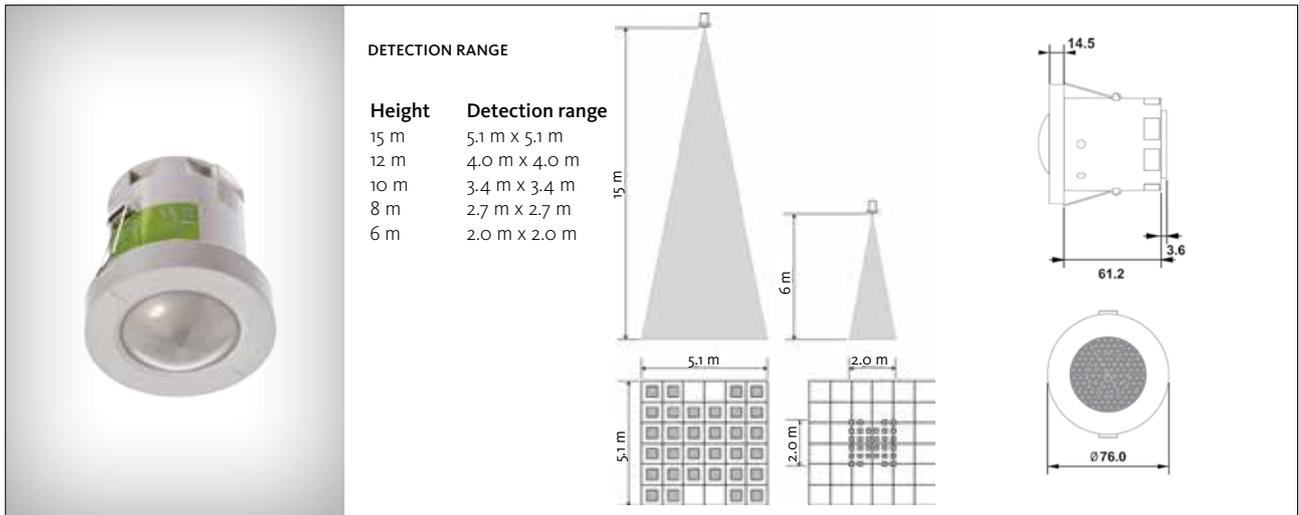


The High bay PIR sensor is designed for installation heights of up to 15 m. It has a special lens technology with focused detection range of 5.1 m x 5.1 m for shelf areas in warehouse and logistics applications. The sensor is easy to control from the ground with the programmable handset. Suitable for advanced detection, e.g. warehouse walkways. The dim versions include corridor function and automatic burn-in of fluorescent lamps in connection with new installations and lamp replacements.

- Detection range up to 5.1 x 5.1 m at ceiling height 15 m
- For high bay applications
- Available in on/off, 1-10V, DALI version
- Presence detection and daylight linking\*
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection
- Easy installation by factory setting and remote control adjustment

\* up to 5 meters only

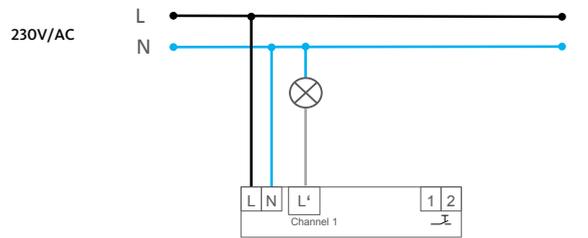




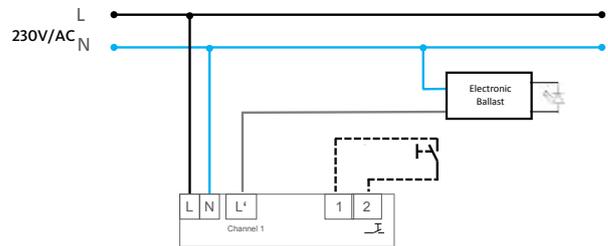
**DETECTION RANGE**

Height	Detection range
15 m	5.1 m x 5.1 m
12 m	4.0 m x 4.0 m
10 m	3.4 m x 3.4 m
8 m	2.7 m x 2.7 m
6 m	2.0 m x 2.0 m

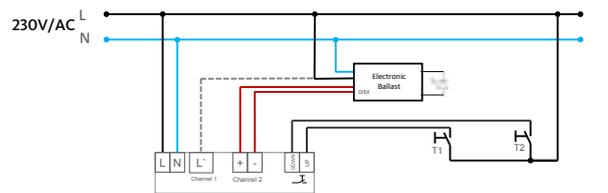
PRODUCT	EBDSPIR-HB-PRM	EBDSPIR-HB-DD	EBDSPIR-HB-AD
<b>Article no.</b>	<b>760128</b>	<b>760126</b>	<b>760127</b>
<b>ELECTRICAL DATA</b>			
Sensor type	PIR	PIR	PIR
Sensor model	On/Off	DALI/DSI	1-10V
Voltage	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz
Max. load	10 A	10 A	10 A
Max. no. of ballasts	20	20 if only channel 2 is used. (otherwise 10)	10
IP class	IP40	IP40	IP40
Power consumption passive	0.87 W	0.6 W	0.3 W
Power consumption active	0.89 W	0.8 W	0.7 W
Operation temperature	0°C - 35°C	0°C - 35°C	0°C - 35°C
<b>FEATURES</b>			
Detection range	5 m* 5 m / 15 m height	5 m* 5 m / 15 m height	5 m* 5 m / 15 m height
Channel 1 on/off (non-floating contact)	Yes	Yes	Yes
Channel 2 dim	-	DALI /DSI	1-10V
Push button input	Yes	Yes	Yes
Motion detection by default	Yes	Yes	Yes
Presence detection by setting	Yes	Yes	Yes
Semi-automatic mode	Yes	Yes	Yes
Adjustable sensitivity	Yes	Yes	Yes
Lux switching on & off	Yes	Yes	Yes
Separate sensitivity for active & passive mode	Yes	Yes	Yes
Detection indication	Yes	Yes	Yes
Setting indication	Yes	Yes	Yes
Time delay, stepless	10 sec-99 min	10 sec-99 min	10 sec-99 min
Dimmer memory (last manual level)	-	Yes	Yes
Corridor function	-	Yes	Yes
Auto burn-in of fluorescent tubes	-	Yes	Yes
<b>SETTING</b>			
Control knob on sensor	-	-	-
Remote control	UNLCDHS	UNLCDHS	UNLCDHS
Remote control, user	UH55	UH55	UH55
<b>GENERAL DATA</b>			
Dimension (Diameter/depth mm)	76/65	76/65	76/65
Product weight (kg)	0.15	0.20	0.20
Colour	White RAL 9003	White RAL 9003	White RAL 9003
Guarantee	5 years	5 years	5 years
<b>ACCESSORY</b>			
Ceiling mounting bracket	DBB	DBB	DBB
Wall mounting bracket	DBB-WBRKT	DBB-WBRKT	DBB-WBRKT



**PRM VERSION- AUTOMATIC MODE**



**PRM VERSION- SEMI AUTOMATIC MODE**



**DIM VERSION WITH MANUAL DIMMING OPTION**

**ACCESSORIES**



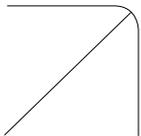
**CEILING BRACKET, SMALL DBB ART. 760132**



**WALL BRACKET, SMALL DBB-WBRKT ART. 760081**

# PIR: Mini Sensor

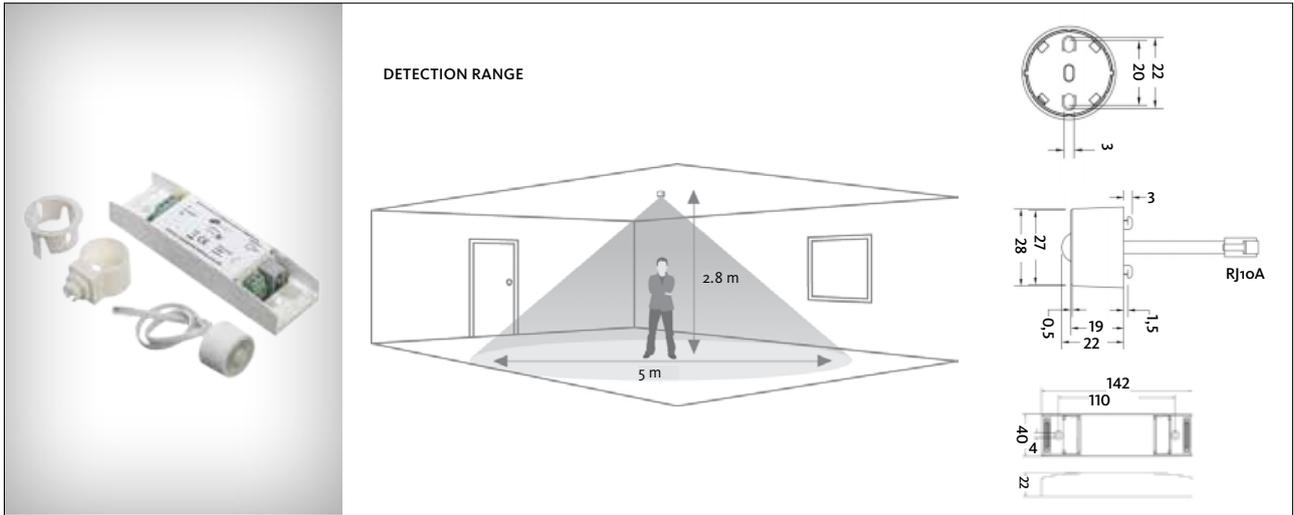
Discreet mini sensor for nearly invisible installations



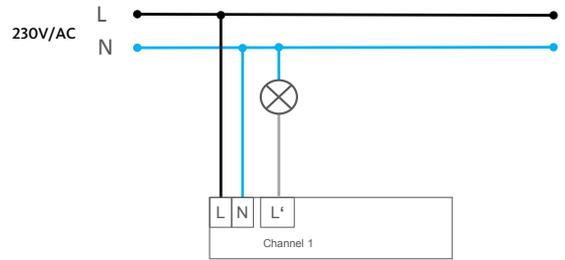
The Mini PIR sensor is an ideal solution for small, separated detection zones. The small design allows it to be integrated into ceilings, shelves and furnitures without being seen. With a detection area of 360° / Ø 5 m this sensor can be used in small offices, storage rooms, copy rooms or restrooms. The nearly invisible design can easily be integrated in modern ceiling arrangements.

- Detection range 360°/Ø 5 m at ceiling height 2.8 m
- Discreet design
- Available in on/off, 1-10V or DALI
- Presence detection and daylight linking
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Easy installation by factory setting and remote control adjustment

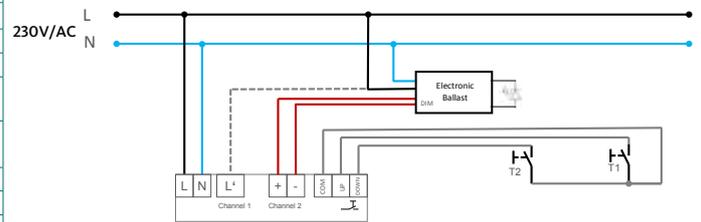




PRODUCT	EBMPIR-PRM-SA-C	EBMPIR-DD-SA-C	EBMPIR-AD-SA-C
<b>Article no.</b>	<b>760115</b>	<b>760116</b>	<b>760117</b>
<b>ELECTRICAL DATA</b>			
Sensor type	PIR	PIR	PIR
Sensor model	On/Off	DALI/DSI	1-10V
Voltage	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz
Max. load	6 A	6 A	6 A
Max. no. of ballasts	20	20 if only channel 2 is used. (otherwise 10)	10
IP class	IP 40	IP 40	IP 40
Power consumption passive	0.82 W	0.3 W	0.5 W
Power consumption active	0.84 W	0.9 W	1.1 W
Operation temperature	-10°C- +35°C	-10°C- +35°C	-10°C- +35°C
<b>FEATURES</b>			
Detection range	Ø 5 m / 2.8 m height	Ø 5 m / 2.8 m height	Ø 5 m / 2.8 m height
Channel 1 on/off, (non-floating contact)	Yes	Yes	Yes
Channel 2 dim	-	DALI /DSI	1-10V
Push button input	Yes	Yes	Yes
Motion detection by default	Yes	Yes	Yes
Presence detection by setting	Yes	Yes	Yes
Semi-automatic mode	Yes	Yes	Yes
Adjustable sensitivity	Yes	Yes	Yes
Lux switching on & off	Yes	Yes	Yes
Presence detection by setting	Yes	Yes	Yes
Adjustable sensitivity - presence	Yes	Yes	Yes
Detection indication	Yes	Yes	Yes
Setting indication	Yes	Yes	Yes
Time delay, stepless	10 sec-99 min	10 sec-99 min	10 sec-99 min
Dimmer memory (last manual level)	-	Yes	Yes
Corridor function	-	Yes	Yes
Auto burn-in of fluorescent tubes	-	Yes	Yes
<b>SETTING</b>			
Control knob sensor	-	-	-
Remote control	UNLCDHS	UNLCDHS	UNLCDHS
Remote control, user	UHS 5/6/7	UHS 5/6/7	UHS 5/6/7
<b>GENERAL DATA</b>			
Dimensions (Diameter/depth mm)	28/22 (sensor head)	28/22 (sensor head)	28/22 (sensor head)
Product weight (kg)	0.10	0.10	0.10
Colour	White RAL 9003	White RAL 9003	White RAL 9003
Guarantee	5 years	5 years	5 years
<b>ACCESSORY</b>			
Ceiling mounting bracket	-	-	-
Wall mounting bracket	-	-	-



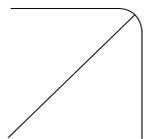
PRM VERSION- AUTOMATIC MODE



PRM VERSION- SEMI AUTOMATIC MODE

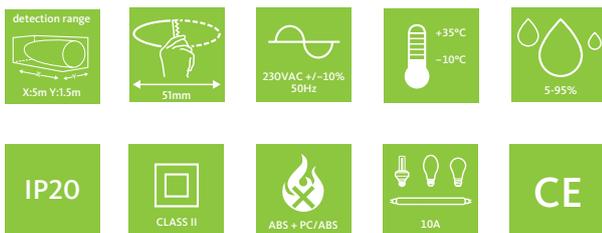
# PIR: Wall Sensor

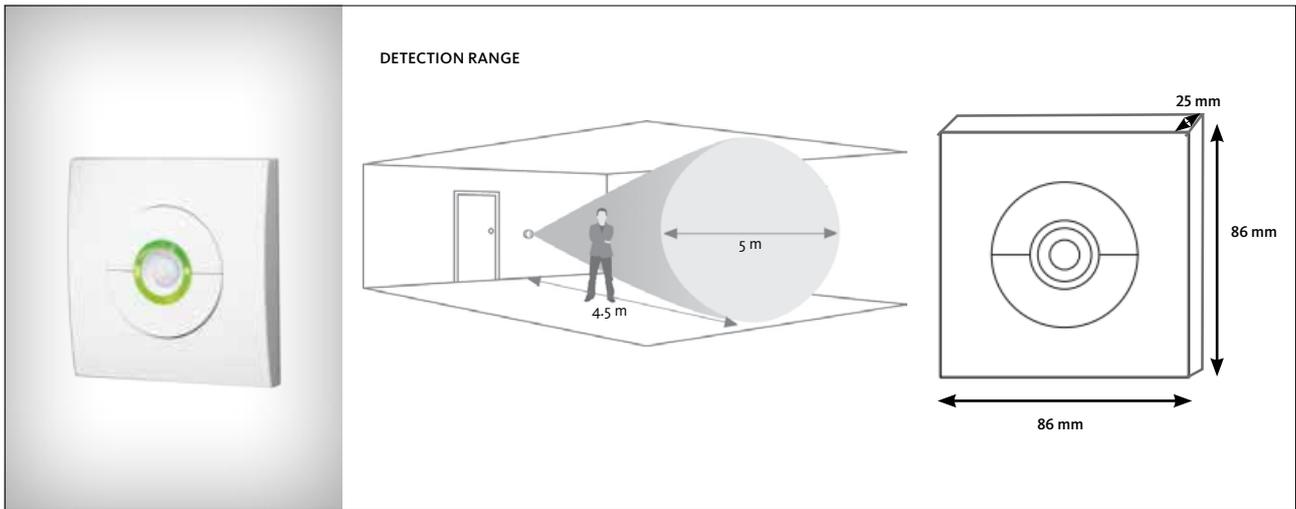
Automatic switch for more comfort and safety



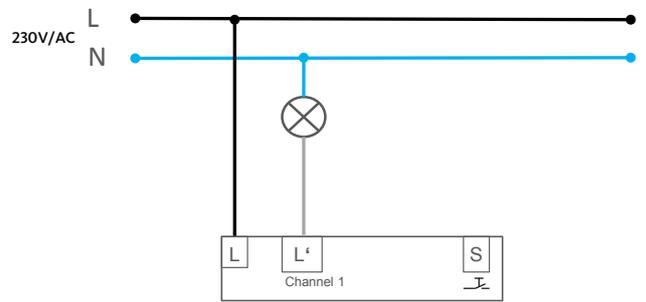
This automatic wall sensor ensure safety and increase comfort in all types of rooms. The sensor can be used in both fully automatic or semi-automatic mode, depending on the application and is available in both an on/off version and as a dimmer. These sensors are the perfect solution for renovations, since they fit in a standard wall frame and need no further programming.

- **Detection range up to 5 m**
- **Semi- and fully automatic function**
- **Stepless dimming level, delay time and detection sensitivity**
- **Remote controlled for professional commissioning for the dim version**
- **Available versions: on/off and conventional dimming**
- **Supplied with white front panel, bronze and brushed steel available as accessories**
- **Perfect solution for renovation without new cabling**
- **Build-in battery avoids re-cabling**
- **Lifetime of battery approx. 5 years**

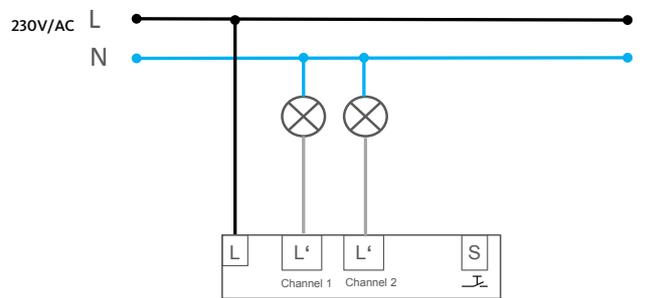




PRODUCT	E-3005N	E-3003N	E-3004N
<b>Article no.</b>	<b>760152</b>	<b>760150</b>	<b>760151</b>
Sensor type	PIR 130°	PIR 130°	PIR 130°
Sensor model	On&off	Dimmer	Double dimmer
Detection range	5 m detection diameter at distance of 4,5 m	5 m detection diameter at distance of 4,5 m	5 m detection diameter at distance of 4,5 m
Voltage	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz
Incandescent light load mini/max	10A	40 W/400 W	40 W/250 W per channel
IP Class	IP20	IP20	IP20
Low-voltage/transformer load mini/max	10A	60 W/400 W	60 W/250 W per channel
Load, other light sources	10A	Not compatible	Not compatible
Battery	3 V DC CR2477	-	-
Remote control	-	Yes (E3007N)	Yes (E3007N)
Fully automated on/off	Yes	Yes	Yes
Semi-automated mode on/auto off	Yes	Yes	Yes
Holiday mode	Yes	Yes	Yes
Adjustable lux	Yes	Yes	Yes
Adjustable delay time	1-30 min	1-30 min	1-30 min
Dim level memory	-	Yes	Yes
Preset scenarios	-	Yes	Yes
Constant low level/ night light	-	Yes	Yes
IP class	IP 20	IP 20	IP 20
Recessed and surface mounted instr.	GIPB/NRD-IQ	GIPB/NRD-IQ	GIPB/NRD-IQ
Colour	White	White	White
Product dimensions (Diameter/depth mm)	85 X 85	85 X 85	85 X 85
Product weight (kg)	0.106	0.148	0.148
Guarantee	5 years	5 years	5 years
<b>ACCESSORY</b>			
Protective frame brushed steel	E-3008N	E-3008N	E-3008N
Protective frame brushed bronze finish	E-3009N	E-3009N	E-3009N
Remote control	E-3007N	E-3007N	E-3007N
Bracket for surface mounted installation	GIPB/NRD	GIPB/NRD	GIPB/NRD



PRM VERSION- DIM & PRM



PRM VERSION- DIM 2 CHANNEL

ACCESSORIES



PROTECTIVE FRAME BRUSHED STEEL FINISH E-3008N ART. 760153

PROTECTIVE FRAME BRUSHED BRONZE FINISH, E-3009N ART. 760154



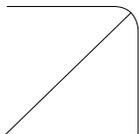
REMOTE CONTROL E-3007N ART. 760155



BRACKET FOR SURFACE MOUNTED INSTALLATION GIPB/NRD ART. 760156

# HF: Universal Sensor

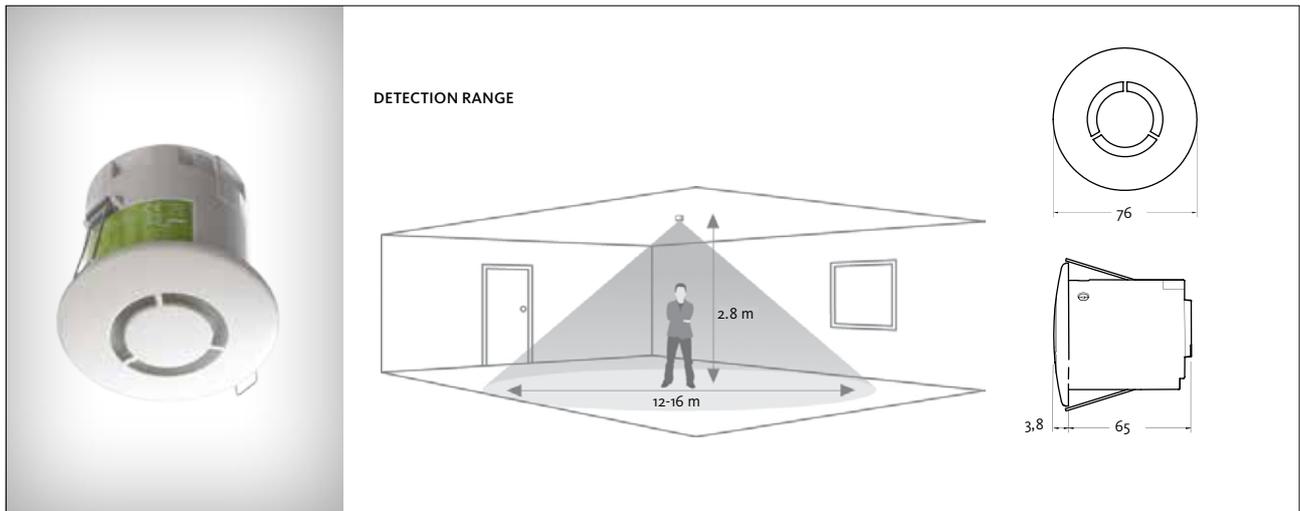
The sensor that detects even the smallest movement



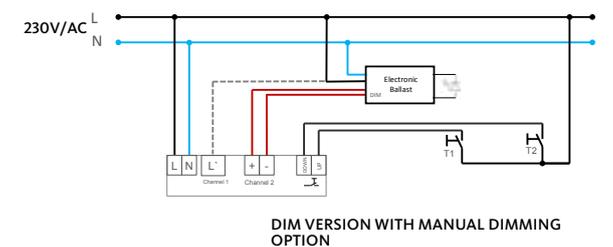
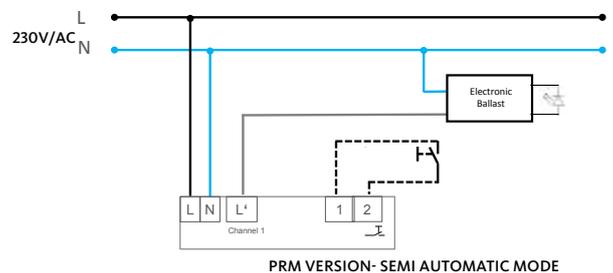
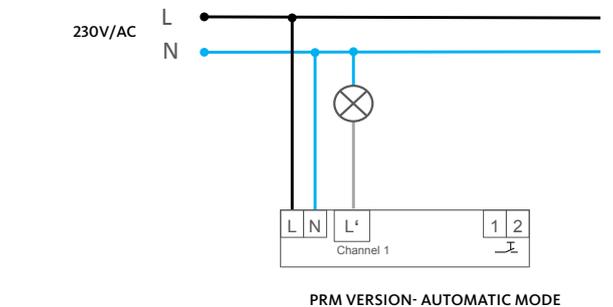
Compact HF all-in-one sensor which detects even very small movements. This is the ideal sensor in areas where people are sitting still, such as offices, meeting rooms and class rooms. The very low profile makes it almost invisible when recessed in soft ceilings. The sensor is delivered with a modular quick connector for easy installation with spring clamps.

- Detection range up to 360°/16 m at mounting height 2.8 m
- Low convex profile, for nearly invisible installation
- Presence and motion sensor in one
- Daylight linking function
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Remote controlled for professional commissioning
- Available versions: on/off, DALI, 1-10V and AN10®
- Factory Preset for plug & play





PRODUCT	MWS6-PRM	MWS6-PRM/2K	MWS6-DD	MWS6-AD
<b>Article no.</b>	<b>760123</b>	<b>760185</b>	<b>760122</b>	<b>760143</b>
<b>TECHNICAL DATA</b>				
Sensor type	HF 5.8 GHz	HF 5.8 GHz	HF 5.8 GHz	HF 5.8 GHz
Sensor model	On/Off	On/Off	DALI/DSI	1-10V
Article no.	760123	760185	760122	760143
Voltage	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz
Max. load	10 A	10 A	10 A	10 A
Max no. of ballasts	20	20	20 if only channel 2 is used (otherwise 10)	10
IP class	IP 40	IP 40	IP 40	IP 40
Power consumption passive	0,7 W	0,7 W	0,7 W	0,7 W
Power consumption active	1,1 W	1,6 W	1,1 W	1,1 W
Operation temperature	-10°C - + 35°C	-10°C - + 35°C	-10°C - + 35°C	-10°C - + 35°C
<b>Features</b>				
Detection range	Ø: 16 m / h: 2,8 m	Ø: 16 m / h: 2,8 m	Ø: 16 m / h: 2,8 m	Ø: 16 m / h: 2,8 m
Channel 1 On/Off (non floating contact)	Yes	Yes & Channel 2	Yes	Yes
Channel 2 dim	-	-	Dali/DSI	1-10V
Push button input	Yes	Yes	Yes	Yes
Motion detection by default	Yes	Yes	Yes	Yes
Presence detection by setting	Yes	Yes	Yes	Yes
Semi-automatic mode	Yes	Yes	Yes	Yes
Adjustable sensitivity	Yes	Yes	Yes	Yes
Lux switching on & off	Yes	Yes	Yes	Yes
Separate sensitivity for active & passive mode	Yes	Yes	Yes	Yes
Detection indication	Yes	Yes	Yes	Yes
Setting indication	Yes	Yes	Yes	Yes
Time delay, stepless	10 sec-99 min	10 sec-99 min	10 sec-99 min	10 sec-99 min
Dimmer memory (last manual level)	-	-	Yes	Yes
Corridor function	-	-	Yes	Yes
Auto burn-in of fluorescent tubes	-	-	Yes	Yes
<b>SETTING</b>				
Control knob on sensor	-	-	-	-
Remote control	UNLCDHS	UNLCDHS	UNLCDHS	UNLCDHS
Remote control, user	UHS5 / UHS6	UHS5 / UHS6	UHS5 / UHS6	UHS5 / UHS6
<b>GENERAL DATA</b>				
Dimensions (diameter/ depth mm)	76/65	76/65	76/65	76/65
Product weight	0,16	0,17	0,20	0,20
Colour	White RAL 9003	White RAL 9003	White RAL 9003	White RAL 9003
Guarantee	5 years	5 years	5 years	5 years
<b>ACCESSORY</b>				
Ceiling mounting bracket	DBB	DBB	DBB	DBB
Wall mounting bracket	DBB-WBRKT	DBB-WBRKT	DBB-WBRKT	DBB-WBRKT



**ACCESSORIES**



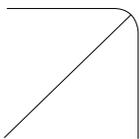
**CEILING BRACKET, SMALL  
DBB  
ART. 760132**



**WALL BRACKET, SMALL  
DBB-WBRKT  
ART. 760081**

# HF: Universal Sensor, Surface Mounted

A sensor for hard ceilings and small movements

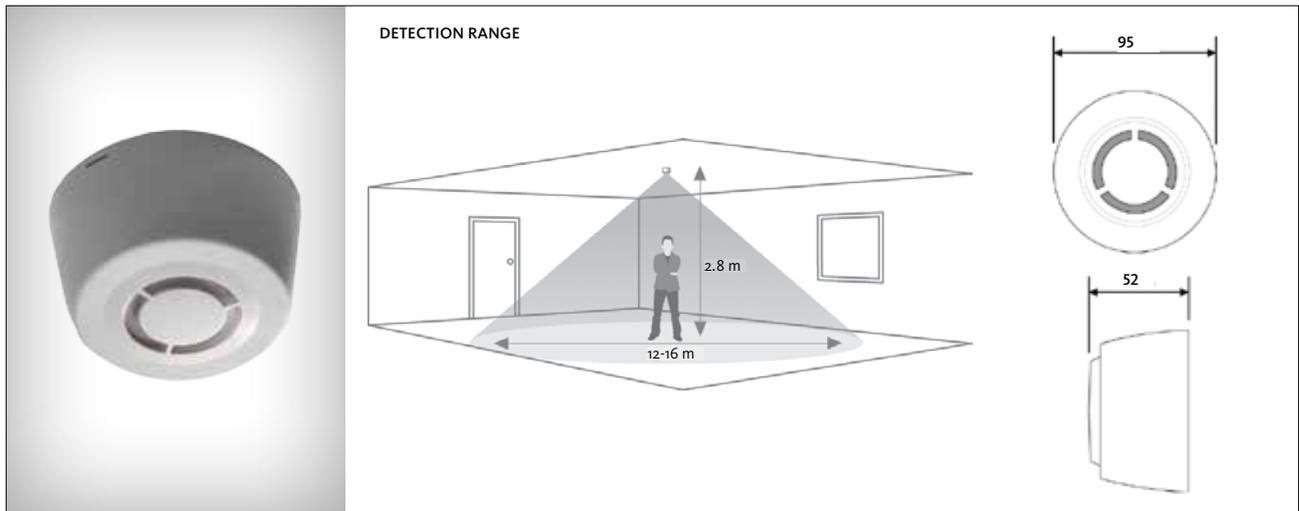


Compact HF all-in-one sensor that detects even very small movements. This is the ideal sensor in areas with small movements and for all type of buildings with concrete ceilings

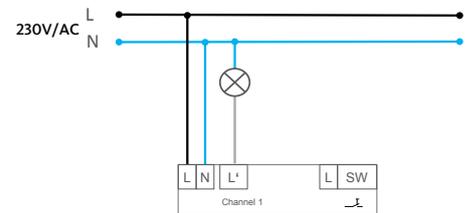
like car parks, basements or restrooms. There's no reason to feel insecure in a dark car park any longer. This sensor will light up immediately when detecting even the smallest movement. Due to the compact design, it is nearly invisible when installed. The HF-technology makes it perfect to detect both humans and all type of vehicles.

- Detection range up to 360°/16 m at mounting height 2.8 m
- Low convex profile, for nearly invisible installation
- Presence and motion sensor in one
- Daylight linking function
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Remote controlled for professional commissioning
- Available versions: on/off, DALI and 1-10V
- Factory Preset for plug & play

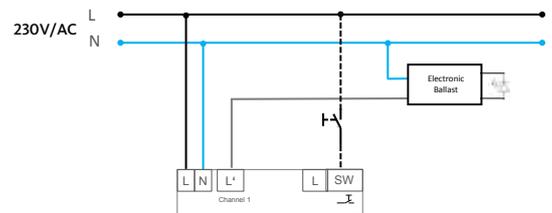




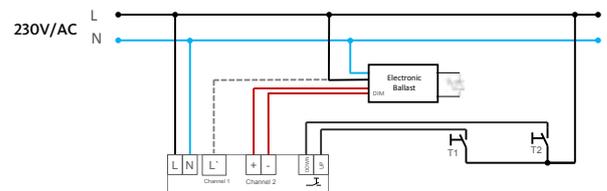
PRODUCT	MWS6SM-PRM	MWS6SM-DD	MWS6SM-AD
Article no.	760373	760374	760375
<b>TECHNICAL DATA</b>			
Sensor type	HF 5.8 GHz	HF 5.8 GHz	HF 5.8 GHz
Sensor model	On/off	DALI	1-10V
Voltage	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz
Max. load	10 A	10 A	10 A
Max no. of ballasts	20	20 if only channel 2 is used (otherwise 10)	10
IP class	IP 40	IP 40	IP 40
Power consumption passive	0,87 W	0,7 W	0,7 W
Power consumption active	0,9 W	0,83 W	0,83 W
Operation temperature	-10°C - + 35°C	-10°C - + 35°C	-10°C - + 35°C
<b>Features</b>			
Detection range	Ø: 16 m / h: 2,8 m	Ø: 16 m / h: 2,8 m	Ø: 16 m / h: 2,8 m
Channel 1 On/Off (non floating contact)	Yes	Yes	Yes
Channel 2 dim	-	DALI/DSI	1-10V
Push button input	Yes	Yes	Yes
Automatic mode	Yes	Yes	Yes
Semi-automatic mode	Yes	Yes	Yes
Adjustable sensitivity	Yes	Yes	Yes
Adjustable lux - switching on	Yes	Yes	Yes
Adjustable sensitivity - presence	Yes	Yes	Yes
Detection indication	Yes	Yes	Yes
Setting indication	Yes	Yes	Yes
Time delay, stepless	10 sec-99 min	10 sec-99 min	10 sec-99 min
Dimmer memory (last man. level)	-	Yes	Yes
Corridor function	-	Yes	Yes
Auto burn-in of fluorescent tubes	-	Yes	Yes
<b>SETTING</b>			
Control knob on sensor	-	-	-
Remote control	UNLCDHS	UNLCDHS	UNLCDHS
Remote control, user	UHS5 /UHS7	UHS5 /UHS7	UHS5 /UHS7
<b>GENERAL DATA</b>			
Dimensions (diameter/depth mm)	95/52	95/52	95/52
Product weight (kg)	0,15	0,20	0,20
Colour	White RAL 9003	White RAL 9003	White RAL 9003
Guarantee	5 years	5 years	5 years



PRM VERSION- AUTOMATIC MODE



PRM VERSION- SEMI AUTOMATIC MODE



DIM VERSION WITH MANUAL DIMMING OPTION

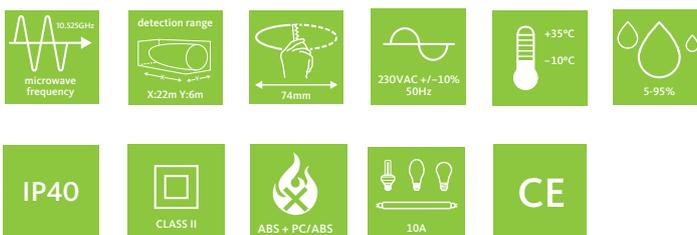
# HF: Corridor Sensor

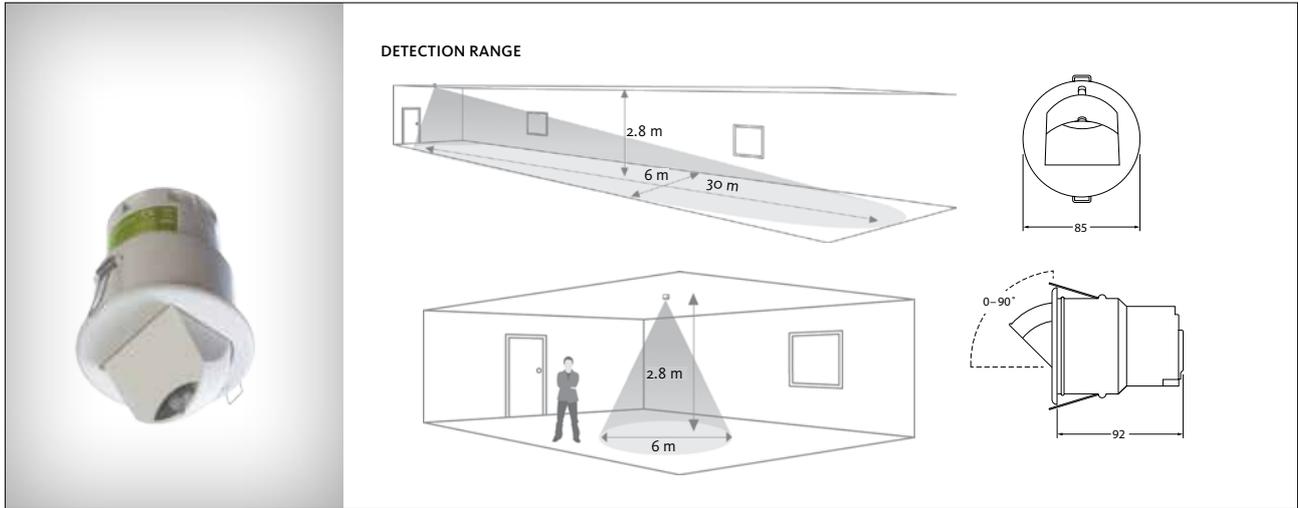
A high-quality sensor with moveable antenna



Aura Light's HF Corridor Sensor is an all-in-one sensor with moveable antenna for adjustable distances up to 30 m. The antenna fulfills a range of detection demands and allows flexible mounting options. Whether used with clapped-in antenna for invisible installation in office areas, or with full clapped-out antenna in car parks, the detection range covers up to 22 m x 6 m at a 2.6 ceiling height. This unique corridor sensor is the perfect solution in areas where humans and vehicles should be detected. The movable antenna is very flexible in terms of detection zone adjustment.

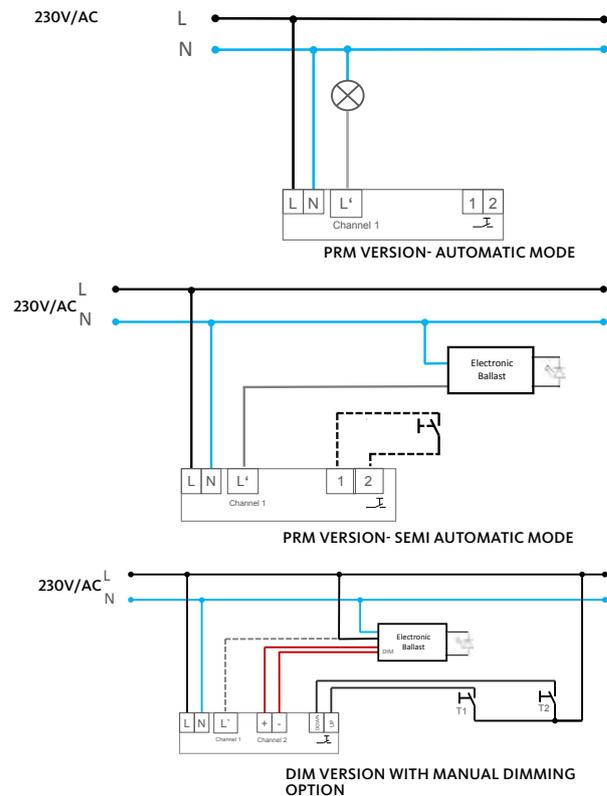
- Detection range up to 30 m at mounting height 2.8 m
- Presence and motion sensor in one
- Daylight linking function
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Remote controlled for professional commissioning
- Available versions: on/off, DALI, 1-10V and AN10®
- Factory Preset for plug & play





PRODUCT	MWS3A-PRM	MWS3A-DD	MWS3A-AD
<b>Article no.</b>	Depends on region	Depends on region	Depends on region
<b>TECHNICAL DATA</b>			
Sensor type	HF	HF	HF
Sensor model	On/Off	DALI/DSI	1-10V
Voltage	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz
Max. load	10 A	10 A	10 A
Max. no. of ballasts	20	20 if only channel 2 is used (otherwise 10)	10
IP class	IP 40	IP 40	IP 40
Power consumption passive	0,9 W	1 W	1 W
Power consumption active	1,5 W	1,5 W	1,5 W
Operation temperature	-10°C - + 50°C	-10°C - + 50°C	-10°C - + 50°C
<b>Features</b>			
Detection range depending of antenna position	Ø: 22 m x 6 / h: 2,8 m	Ø: 22 m x 6 / h: 2,8 m	Ø: 22 m x 6 / h: 2,8 m
Channel 1 On/Off (non floating contact)	Yes	Yes	Yes
Channel 2 dim	-	Dali/DSI	1-10V
Push button input	Yes	Yes	Yes
Automatic mode	Yes	Yes	Yes
Semi-automatic mode	Yes	Yes	Yes
Adjustable sensitivity	Yes	Yes	Yes
Lux switching on & off	Yes	Yes	Yes
Separate sensitivity for active & passive mode	Yes	Yes	Yes
Detection indication	Yes	Yes	Yes
Setting indication	Yes	Yes	Yes
Time delay, stepless	10 sec-99 min	10 sec-99 min	10 sec-99 min
Dimmer memory (last manual setting)	-	Yes	Yes
Corridor function	-	Yes	Yes
Auto burn-in of fluorescent tubes	-	Yes	Yes
<b>SETTING</b>			
Control knob on sensor	-	-	-
Remote control	UNLCDHS	UNLCDHS	UNLCDHS
Remote control, user	UHS5 / UHS6	UHS5 / UHS6	UHS5 / UHS6
<b>GENERAL DATA</b>			
Dimensions (diameter/depth mm)	85/92	85/92	85/92
Product weight	0,20	0,20	0,20
Colour	White RAL 9003	White RAL 9003	White RAL 9003
Guarantee	5 years	5 years	5 years
<b>ACCESSORY</b>			
Ceiling mounting bracket	MWS3A-DBB	MWS3A-DBB	MWS3A-DBB
Wall mounting bracket	MWS3A-DBB-WBRKT	MWS3A-DBB-WBRKT	MWS3A-DBB-WBRKT

Region	Region Code/ Suffix	Frequency	MW-S3A-PRM	MW-S3A-DD	MW-S3A-AD
UK, China, India, Middle East, Malaysia, Hong Kong, Singapore	R0	10.687 GHz	760183	760184	760186
Australia and all of Europe except: UK, France, Portugal, Germany, Switzerland, Austria, Slovak Republic, Republic of Ireland	R2	10.525 GHz	760125	760142	760124
France, Portugal, Switzerland	R3	9.900 GHz	760086	760144	760146
Germany, Austria, Slovak Republic	R4	9.350 GHz	760087	760145	760147



**ACCESSORIES**



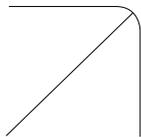
**CEILING BRACKET, LARGE  
MWS3A-DBB  
ART. 760133**



**WALL BRACKET, LARGE  
MWS3A-DBB-WBRKT  
ART. 760080**

# HF: Wall Sensor

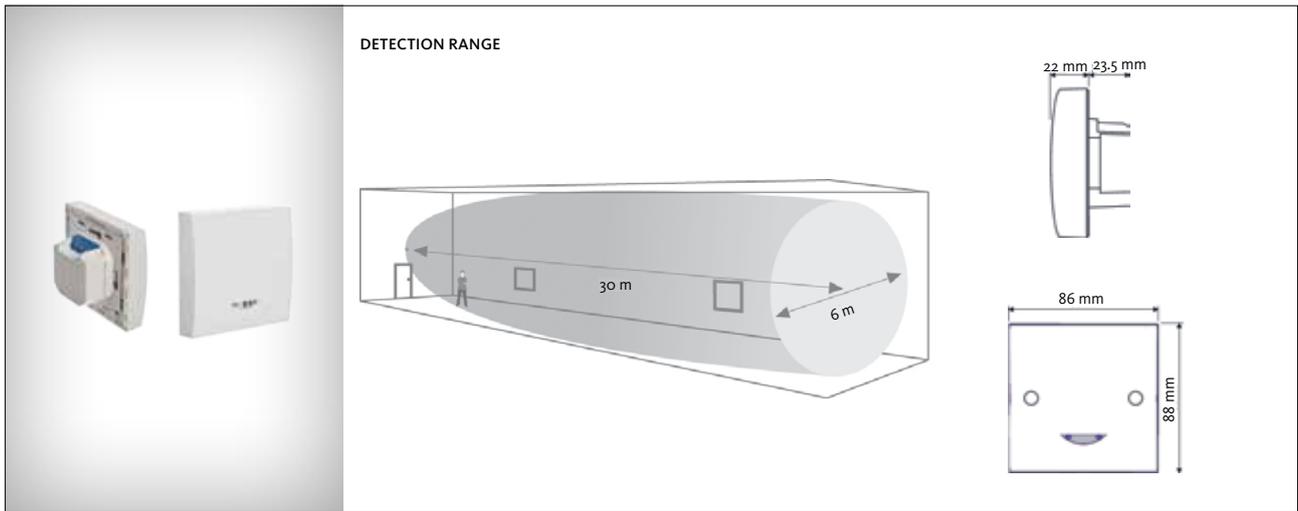
A wall mounted sensor for corridors



HF sensor for easy installation in a wall-mounted box. Adjustable range of up to 30 m. The sensor is perfect for corridors and large areas.

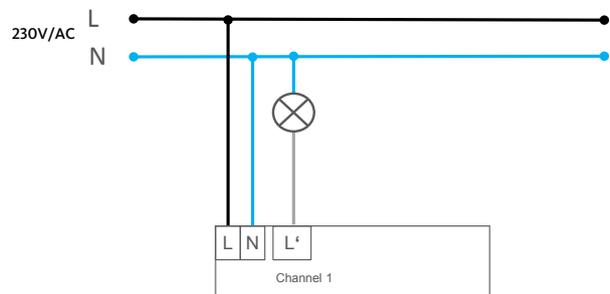
- Adjustable detection range up to 30 m
- Fully automatic function
- Remote controlled for professional commissioning
- Available versions: on & off
- Factory preset for plug & play





PRODUCT	MWS1A-PRM
Article no.	Depends on region
<b>TECHNICAL DATA</b>	
Sensor type	HF
Sensor model	On/Off
Voltage	230 V AC 50 Hz
Max. load	10A
Max no. of ballasts	6
IP class	IP 40
Power consumption passive	0,7 W
Power consumption active	1 W
Operation temperature	-10°C - +35°C
<b>Features</b>	
Detection range	30*6 m / 2.8 m height
Channel 1 On/Off (non floating contact)	Yes
Channel 2 dim	-
Push button input	-
Automatic mode	Yes
Semi-automatic mode	-
Adjustable sensitivity	Yes
Lux switching on & off	Yes
Separate sensitivity for active & passive mode	Yes
Detection indication	Yes
Setting indication	Yes
Time delay, stepless	10 sec - 99 min
Dimmer memory (last manual setting)	-
Corridor function	-
Auto burn-in of fluorescent tubes	-
<b>SETTING</b>	
Control knob on sensor	-
Remote control	UNLCDHS
Remote control, user	UHS5
<b>GENERAL DATA</b>	
Dimensions (diameter/depth mm)	86/86
Product weight	0.11
Colour	White RAL 9003
Guarantee	5 years
<b>ACCESSORY</b>	
Wall mounting box	GIPB/NRD

Region	Region Code/ Suffix	Frequency	MWS1A-PRM
UK, China, India, Middle East, Malaysia, Hong Kong, Singapore	R0	10.687 GHz	760189
Australia and all of Europe except: UK, France, Portugal, Germany, Switzerland, Austria, Slovak Republic, Republic of Ireland	R2	10.525 GHz	760134
France, Portugal, Switzerland	R3	9.900 GHz	760084
Germany, Austria, Slovak Republic	R4	9.350 GHz	760085



WIRE DIAGRAM ON/OFF (PRM VERSION)

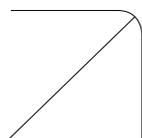
ACCESSORY



WALL BOX GIPB/NRD  
ART. 760156

# HF: Mini Sensor

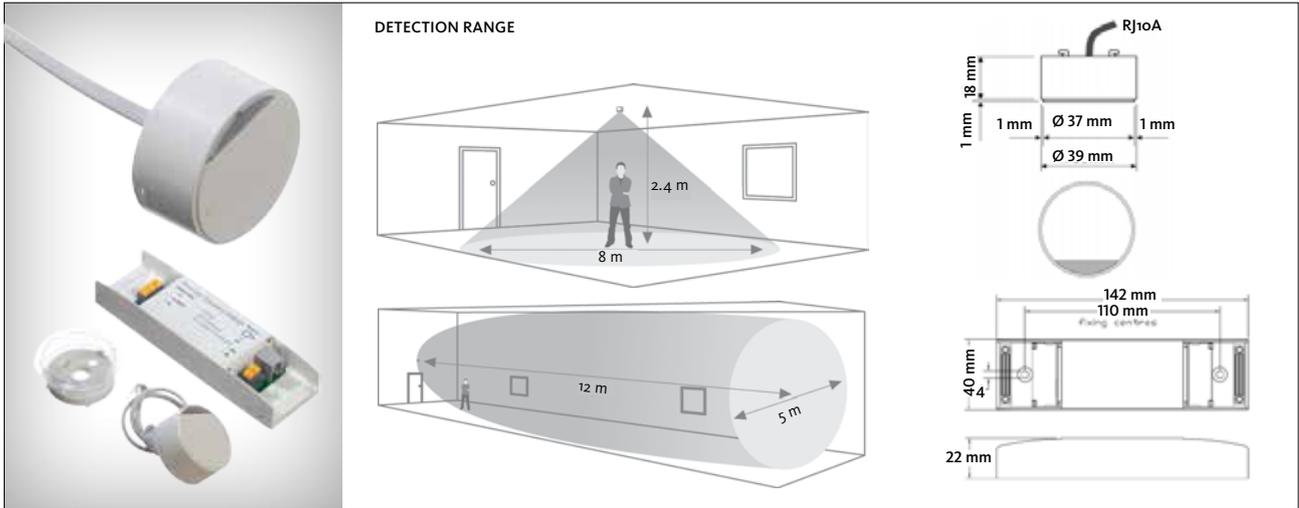
A mini sensor with discrete design



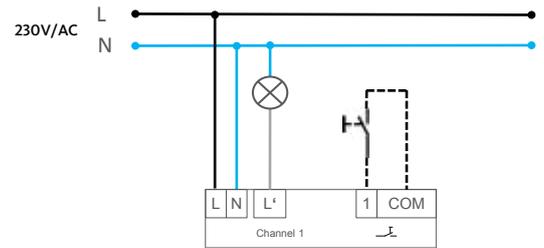
The Mini HF sensor is delivered complete with driver unit and installation brackets for recessed or surface-mounted installation in suspended ceiling or luminaire. The sensor can also be concealed in a luminaire or in suspended ceiling, e.g. maintaining the IP class of the luminaire. The sensor head is supplied with a 30 cm modular cable RJ 10A. Suitable for detecting small work groups.

- Detection range up to 8 m at mounting height 2.4 m
- Presence and motion sensor in one
- Daylight linking function
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Remote controlled for professional commissioning
- Available versions: on/off, DALI or 1-10V
- Factory Preset for plug & play

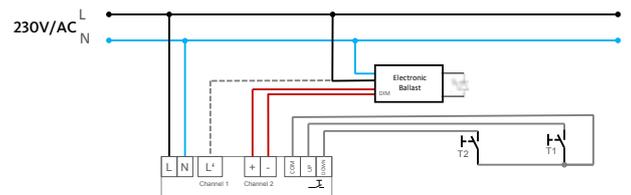
5.8GHz microwave frequency	detection range X:12m Y:5m	32mm	230VAC +/-10% 50Hz	+35°C -10°C	5-95%
IP40	CLASS II	ABS + PC/ABS	10A	CE	



PRODUCT	MWS5-PRM-SA-C	MWS5-DD-SA-C	MWS5-AD-SA-C
<b>Article no.</b>	<b>760104</b>	<b>760106</b>	<b>760107</b>
<b>TECHNICAL DATA</b>			
Sensor type	HF 5.8 GHz	HF 5.8 GHz	HF 5.8 GHz
Sensor model	On/Off	DALI/DSI	1-10V
Voltage	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz
Max. load	6 A	6 A	6 A
Max no. of ballasts	10	10	10
IP class	IP 40	IP 40	IP 40
Power consumption passive	1,5 W	0,9 W	0,8 W
Power consumption active	1,1 W	1,8 W	1,1 W
Operation temperature	-10°C - + 35°C	-10°C - + 35°C	-10°C - + 35°C
<b>Features</b>			
Detection range	Ø: 8 / h: 2,8 m	Ø: 8 / h: 2,8 m	Ø: 8 / h: 2,8 m
Channel 1 On/Off (non floating contact)	Yes	Yes	Yes
Channel 2 dim	-	Dali/DSI	1-10V
Push button input	Yes	Yes	Yes
Automatic mode	Yes	Yes	Yes
Semi-automatic mode	Yes	Yes	Yes
Adjustable sensitivity	Yes	Yes	Yes
Lux switching on & off	Yes	Yes	Yes
Separate sensitivity for active & passive mode	Yes	Yes	Yes
Detection indication	Yes	Yes	Yes
Setting indication	Yes	Yes	Yes
Time delay, stepless	10 sec-99 min	10 sec-99 min	10 sec-99 min
Dimmer memory (last manual setting)	-	Yes	Yes
Corridor function	-	Yes	Yes
Auto burn-in of fluorescent tubes	-	Yes	Yes
<b>SETTING</b>			
Control knob on sensor	-	-	-
Remote control	UNLCDHS	UNLCDHS	UNLCDHS
Remote control, user	UHSS	UHSS	UHSS
<b>GENERAL DATA</b>			
Dimensions (diameter/depth mm)	39 /18 (sensor head)	39 /18 (sensor head)	39 /18 (sensor head)
Product weight	0,10	0,10	0,10
Colour	White RAL 9003	White RAL 9003	White RAL 9003
Guarantee	5 years	5 years	5 years
<b>ACCESSORY</b>			
Ceiling mounting bracket	-	-	-
Wall mounting bracket	-	-	-



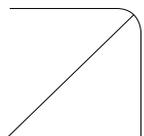
PRM VERSION- AUTOMATIC MODE



PRM VERSION- SEMI AUTOMATIC MODE

# Wireless AN10®: Universal PIR Sensor

A wireless, flexible and nearly invisible PIR sensor

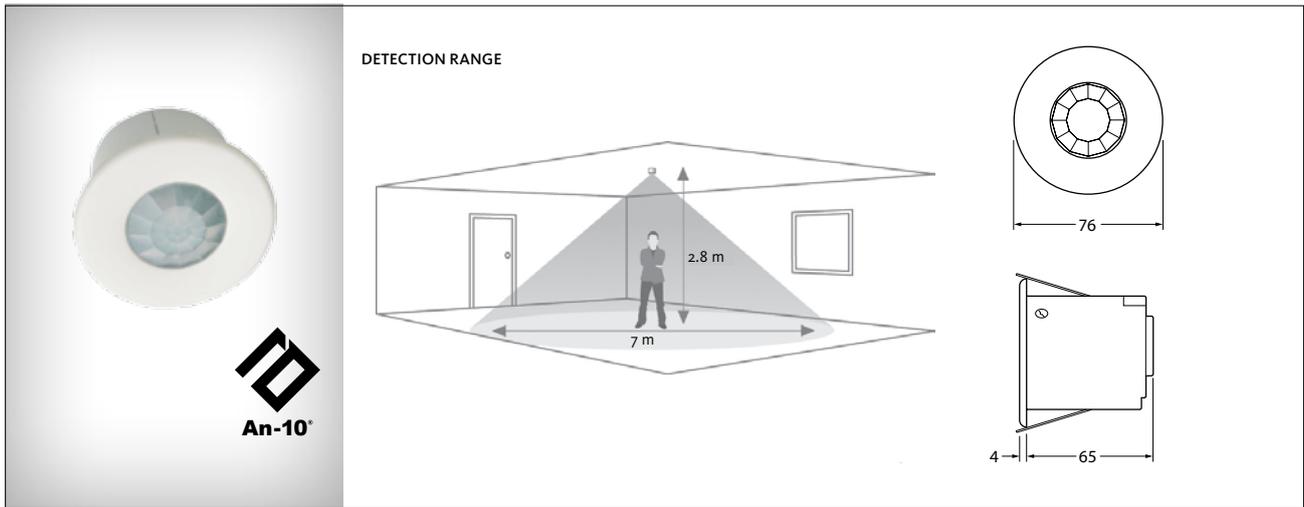


The Wireless Universal PIR sensor is a discreet, minimalistic sensor which makes it perfect for almost any type of building.

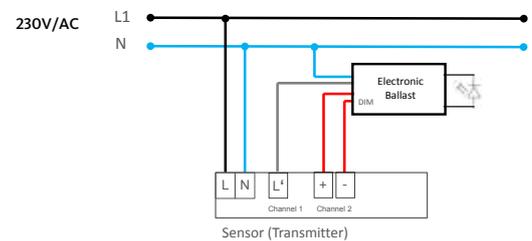
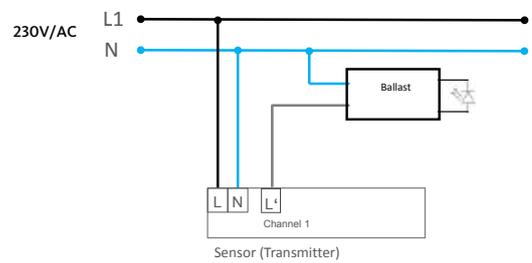
The wireless broadcast system reduces installation costs and reduces cable installation. It also allows a more future-proof and flexible installation. The detection range of 7 m will cover up to 40 m<sup>2</sup>, which is perfect for offices, floors, meeting rooms, entries and social rooms.

- Detection range 360°/Ø 7 m at ceiling height 2.8 m
- Available in on/off, 1-10V, DALI or wireless AN10® versions
- Presence detection and daylight linking
- Invisible mounting due to low profile (3,7 mm)
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Easy installation
- Wireless transmission on 868 MHz
- Unique mesh network for reliable functionality
- Transceiver system with 4-step security coding
- Individual light scene options like corridor function light
- Factory preset for easy installation
- One light scene command- unlimited receivers reacts\*

\*depends on buildings physics

PRODUCT	EBDSPIR-AT-PRM	EBDSPIR-AT-DD	EBDSPIR-AT-AD
<b>Article no.</b>	<b>760160</b>	<b>760161</b>	<b>760162</b>
<b>ELECTRICAL DATA</b>			
Sensor type	PIR	PIR	PIR
Sensor model	On/Off	DALI/DSI	1-10V
Voltage	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz
Max. load	10 A	10 A	10 A
Max. no. of ballasts	20	20 if only channel 2 is used. (otherwise 10)	10
IP class	IP 40	IP 40	IP 40
Power consumption passive	0.6 W	0.6 W	0.6 W
Power consumption active	0.8 W	0.8 W	0.8 W
Operation range (indoor)	> 30 m	> 30 m	> 30 m
Operation temperature	0°C - 35°C	0°C - 35°C	0°C - 35°C
<b>FEATURES</b>			
Detection range	Ø 7 m / 2.8 m height	Ø 7 m / 2.8 m height	Ø 7 m / 2.8 m height
Channel 1 on/off	Yes	Yes	Yes
Channel 2 dim	-	DALI /DSI	1-10V
Channel 3 wireless	868MHz/ 3 CH	868MHz/ 3 CH	868MHz/ 3 CH
Push button input	via AT-BB-IN	via AT-BB-IN	via AT-BB-IN
Semi-automatic mode	Yes	Yes	Yes
Adjustable sensitivity	Yes	Yes	Yes
Adjustable lux - switching on	Yes	Yes	Yes
Adjustable sensitivity - presence	Yes	Yes	Yes
Detection indication	Yes	Yes	Yes
Setting indication	Yes	Yes	Yes
Time delay, stepless	10 sec-99 min	10 sec-99 min	10 sec-99 min
Corridor function	-	Yes	Yes
Auto burn-in of fluorescent tubes	-	Yes	Yes
<b>SETTING</b>			
Control knob for sensor	-	-	-
Remote control	UNLCDHS	UNLCDHS	UNLCDHS
Remote control, user	UHS4	UHS4	UHS4
<b>GENERAL DATA</b>			
DIMENSIONS (Diameter/depth mm)	76/65	76/65	76/65
Product weight (kg)	0.13	0.15	0.15
Colour	White RAL 9003	White RAL 9003	White RAL 9003
Guarantee	5 years	5 years	5 years
<b>ACCESSORY</b>			
Ceiling mounting bracket	DBB	DBB	DBB
Wall mounting bracket	DBB-WBRKT	DBB-WBRKT	DBB-WBRKT
Relay module	AT-SL-R / AT-SL-DDR / AT-SL-ADR	AT-SL-R / AT-SL-DDR / AT-SL-ADR	AT-SL-R / AT-SL-DDR / AT-SL-ADR
Switch module	AT-BB-IN	AT-BB-IN	AT-BB-IN



WIRE DIAGRAM AN10® SYSTEM

**ACCESSORIES**



**CEILING BRACKET, SMALL DBB**  
ART. 760132



**WALL BRACKET, SMALL DBB-WBRKT**  
ART.760081



**SWITCH MODULE AT-BB-IN**  
ART. 760167



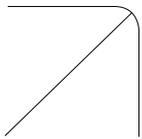
**RELAY MODULE AT-SL-R/-DDR/-ADR**  
ART. 760168/760170/760172



**AN10 DIM & SWITCH CONTROL**  
ART. 760207

# Wireless AN10®: Large Range PIR Sensor

A wireless sensor for applications with a large detection area



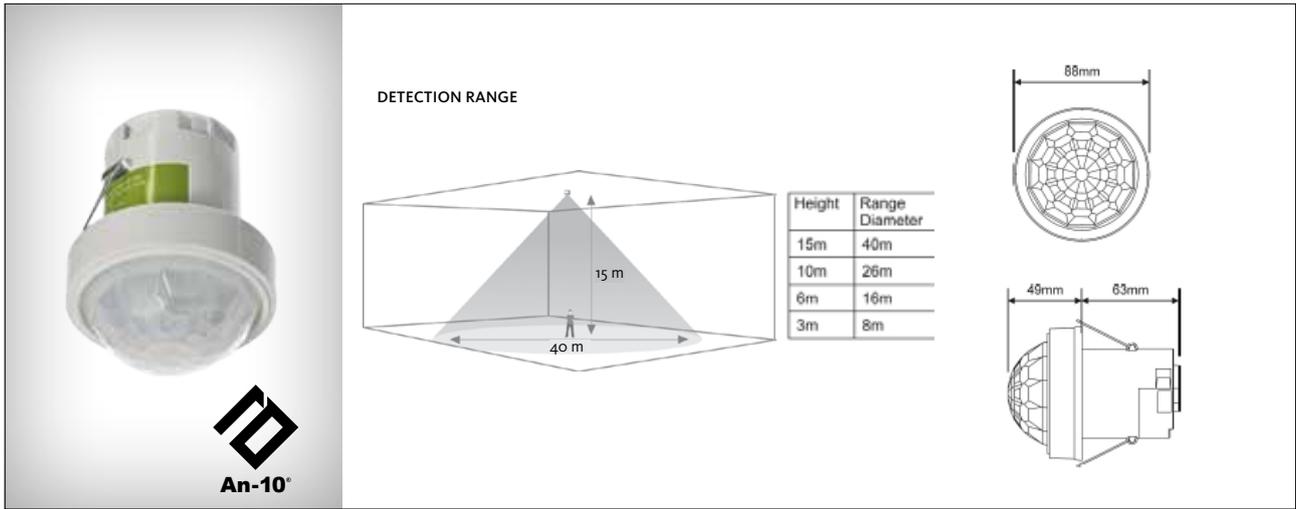
Wireless AN10® large range PIR sensor is designed for installation heights of up to 15 m, with a corresponding detection range of 40 m. The covered detection area can be adjusted to individual detection ranges like 360°/270°/180°/90° to match the specific needs.

The Wireless AN10® technology reduces costs and maintenance in buildings with high ceilings and big areas, like warehouse, logistic centers, industry halls or sport halls. The wireless connectivity gives the flexibility for complex installations. Especially in combination with the large range detector, this technology makes life easier for installation in large buildings.

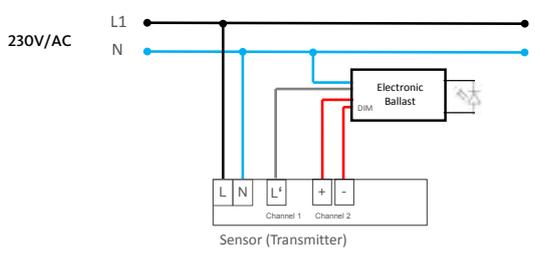
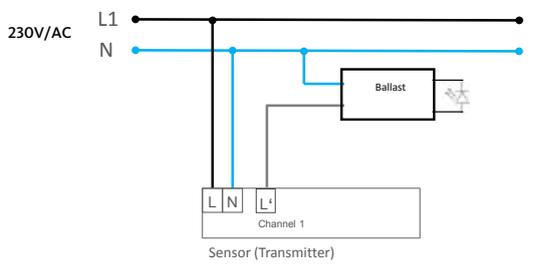
- Detection range 360°/Ø40 m at ceiling height 15 m
- Available in on/off, 1-10V, DALI or wireless AN10® versions
- Presence detection and daylight linking
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Easy installation
- Wireless transmission on 868 MHz
- Up to 30 m transmission range
- Unique mesh network for reliable functionality
- Transceiver system with 4-step security coding
- One light scene command- unlimited receives reacts\*

\*depends on buildings physics

 AT system 868MHz radio frequency	 detection 360° X:40m Y:15m	 64mm	 230VAC +/-10% 50Hz	 +35°C -10°C	 5-95%
 IP44	 CLASS II	 ABS + PC/ABS	 10A	 CE	



PRODUCT	EBDHS-AT-PRM	EBDHS-AT-DD	EBDHS-AT-AD
Article no.	760073	760074	760075
<b>ELECTRICAL DATA</b>			
Sensor type	PIR	PIR	PIR
Sensor model	On/Off	DALI/DSI	1-10V
Voltage	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz
Max. load	10 A	10 A	10 A
Max. no. of ballasts	20	20 if only channel 2 is used (otherwise 10)	10
IP Class	IP 44	IP 44	IP 44
Power consumption passive	0.6 W	0.6 W	0.7 W
Power consumption active	1.1 W	1.1 W	1.2 W
Operation temperature	0°C - 35°C	0°C - 35°C	0°C - 35°C
<b>FEATURES</b>			
Detection range	Ø 40 m / 15 m height	Ø 40 m / 15 m height	Ø 40 m / 15 m height
Channel 1 on/off, (non-floating contact)	Yes	Yes	Yes
Channel 2 dim	-	DALI / DSI	1-10V
Channel 3 wireless	863MHz/ 3 CH	863MHz/ 3 CH	863MHz/ 3 CH
Operation range (indoor)	> 30 m	> 30 m	> 30 m
Push button input	via AT-BB-IN	via AT-BB-IN	via AT-BB-IN
Automatic mode	Yes	Yes	Yes
Semi-automatic mode	Yes	Yes	Yes
Adjustable sensitivity	Yes	Yes	Yes
Adjustable lux - switching on	Yes	Yes	Yes
Adjustable sensitivity presence	Yes	Yes	Yes
Detection indication	Yes	Yes	Yes
Setting indication	Yes	Yes	Yes
Time, Delay, Stepless	10 sec-99 min	10 sec-99 min	10 sec-99 min
Dimmer memory (last man. level)	-	Yes	Yes
Corridor function	-	Yes	Yes
Auto burn-in of fluorescent tubes	-	Yes	Yes
Selectable detection range 360°/270°/180°/90°	Yes	Yes	Yes
<b>SETTING</b>			
Control knob on sensor	-	-	-
Remote control	UNLCDHS	UNLCDHS	UNLCDHS
Remote control, user	UHS4	UHS4	UHS4
<b>GENERAL DATA</b>			
Dimensions (Diameter/depth mm)	88/65	88/65	88/65
Product weight (kg)	0.15	0.20	0.20
Colour	White RAL 9003	White RAL 9003	White RAL 9003
Guarantee	5 years	5 years	5 years
<b>ACCESSORY</b>			
Ceiling mounting bracket	DBB	DBB	DBB
Wall mounting bracket	DBB-WBRKT	DBB-WBRKT	DBB-WBRKT
Relay module	AT-SL-R / AT-SL-DDR / AT-SL-ADR	AT-SL-R / AT-SL-DDR / AT-SL-ADR	AT-SL-R / AT-SL-DDR / AT-SL-ADR
Switch module	AT-BB-IN	AT-BB-IN	AT-BB-IN



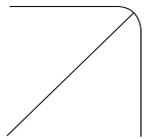
WIRE DIAGRAM AN10® SYSTEM

ACCESSORIES



# Wireless AN10®: Corridor HF Sensor

A high-quality sensor for long operation inductances



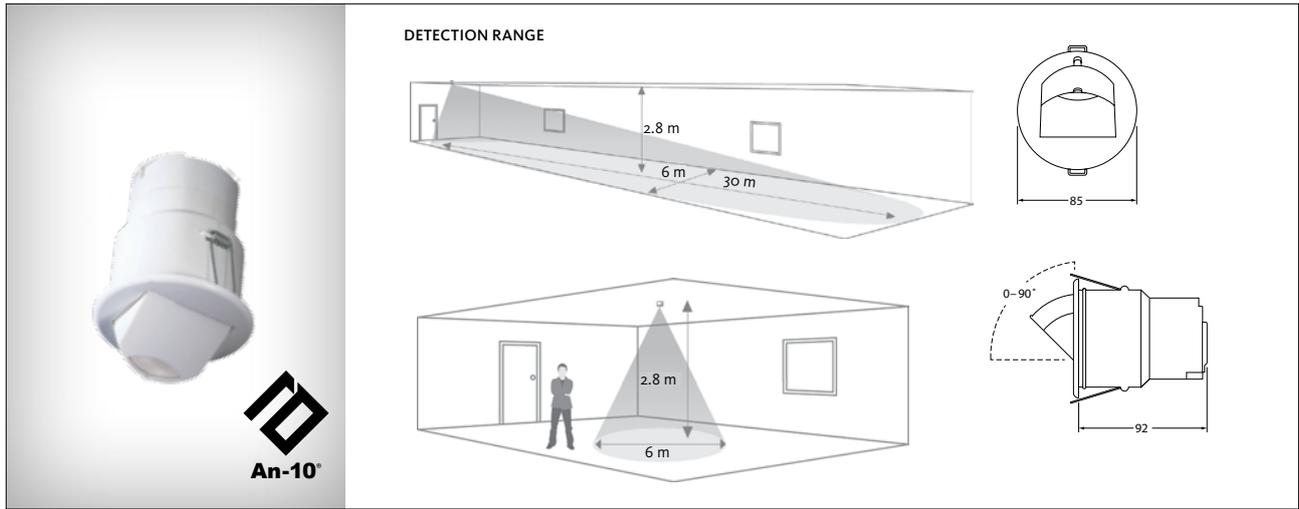
Wireless HF corridor sensor with a detection range of up to 30 m. Corridors often need long cables to connect to a Light Management System. The Wireless AN10®

control system only needs power. The switching or dimming command is wireless and transmitted by air. This broadcast system reduces maintenance costs and reduces cable installation. It also allows a more future-proof and flexible installation. This wireless corridor sensor is perfect for all type of buildings where there are long corridors like offices, hotels, car parks, warehouses and supermarkets.

- Presence and motion sensor in one
- Detection range 30 x 6 m at mounting height 2.8 m
- Daylight linking function
- Semi- and fully automatic function
- Stepless dimming level, delay time and detection sensitivity
- Remote controlled for professional commissioning
- Available versions: on&off/Dali/ 1-10V/ An10®
- Factory Preset for plug & play
- Low convex profile
- Wireless transmission on 868 MHz
- Up to 30 m transmission range
- Unique mesh network for reliable functionality
- Transceiver system with 4-step security coding
- One light scene command- unlimited receives reacts\*

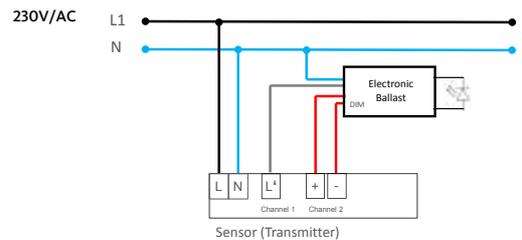
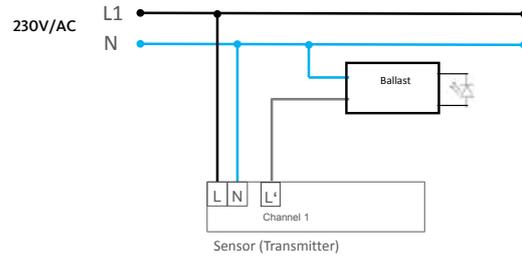
\*depends on buildings physics





PRODUCT	MWS3A-AT-PRM	MWS3A-AT-D	MWS3A-AT-AD
Article no.	Depends on region	Depends on region	Depends on region
<b>ELECTRICAL DATA</b>			
Sensor type	HF	HF	HF
Sensor model	On/Off	DALI/DSI	1-10V
Voltage	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz
Max. load	10A	10A	10A
Max. no. of ballast	20	20 if only channel 2 is used. (otherwise 10)	20
IP Class	IP40	IP40	IP40
Power consumption passive	1.3 W	1.3 W	1.3 W
Power consumption active	2.1 W	2.1 W	2.1 W
Operation temperature	0°C - 35°C	0°C - 35°C	0°C - 35°C
<b>FEATURES</b>			
Detection range depends on antenna position	22*6 m / 2.8 m height	22*6 m / 2.8 m height	22*6 m / 2.8 m height
Channel 1 on/off, (non-floating contact)	Yes	Yes	Yes
Channel 2 dim	-	DALI/DSI	1-10V
Channel 3	868MHz	868MHz	868MHz
Operation range (outdoor)	> 30 m	> 30 m	> 30 m
Push button input	via AT-BB-IN	via AT-BB-IN	via AT-BB-IN
Automatic mode	Yes	Yes	Yes
Semi-automatic mode	Yes	Yes	Yes
Adjustable sensitivity	Yes	Yes	Yes
Adjustable lux - switching on	Yes	Yes	Yes
Adjustable sensitivity - presence	Yes	Yes	Yes
Detection indication	Yes	Yes	Yes
Setting indication	Yes	Yes	Yes
Time, delay, stepless	10 sec-99 min	10 sec-99 min	10 sec-99 min
Corridor function	-	Yes	Yes
Auto burn-in of fluorescent tubes	-	Yes	Yes
<b>SETTING</b>			
Control knob on sensor	-	-	-
Remote control	UNLCDHS	UNLCDHS	UNLCDHS
Remote control, user	UHS4	UHS4	UHS4
<b>GENERAL DATA</b>			
Dimensions (diameter/depth/mm)	85/92	85/92	85/92
Product weight (kg)	0.20	0.20	0.20
Colour	White RAL 9003	White RAL 9003	White RAL 9003
Guarantee	5 years	5 years	5 years
<b>ACCESSORY</b>			
Ceiling mounting bracket	MWS3A-DBB	MWS3A-DBB	MWS3A-DBB
Wall mounting bracket	MWS3A-DBB-WBRKT	MWS3A-DBB-WBRKT	MWS3A-DBB-WBRKT
Relay module	AT-SL-R / AT-SL-DDR / AT-SL-ADR	AT-SL-R / AT-SL-DDR / AT-SL-ADR	AT-SL-R / AT-SL-DDR / AT-SL-ADR
Switch module	AT-BB-IN	AT-BB-IN	AT-BB-IN

Code Suffix	Region	Frequency	MWS3A-AT-PRM	MWS3A-AT-DD	MWS3A-AT-AD
R0	UK, China, India, Middle East, Malaysia, Hong Kong, Singapore	10.687 GHz	760148	760158	760178
R2	Australia and all of Europe except: UK, France, Portugal, Germany, Switzerland, Austria, Slovak Republic, Republic of Ireland	10.525 GHz	760163	760164	760165
R3	France, Portugal, Switzerland	9.900 GHz	760149	760159	760179
R4	Germany, Austria, Slovak Republic	9.350 GHz	760157	760177	760182



WIRE DIAGRAM AN10® SYSTEM

ACCESSORIES



CEILING BRACKET, LARGE MWS3A-DBB ART. 760133



WALL BRACKET, LARGE MWS3A-DBB-WBRKT ART. 760080



SWITCH MODULE AT-BB-IN ART. 760167



RELAY MODULE AT-SL-R/-DDR/-ADR ART. 760168/760170/760172

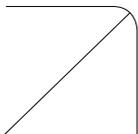


AN10 DIM & SWITCH CONTROL ART. 760207



# KNX: Universal PIR Sensor

A high-quality sensor designed to be a part of a KNX system

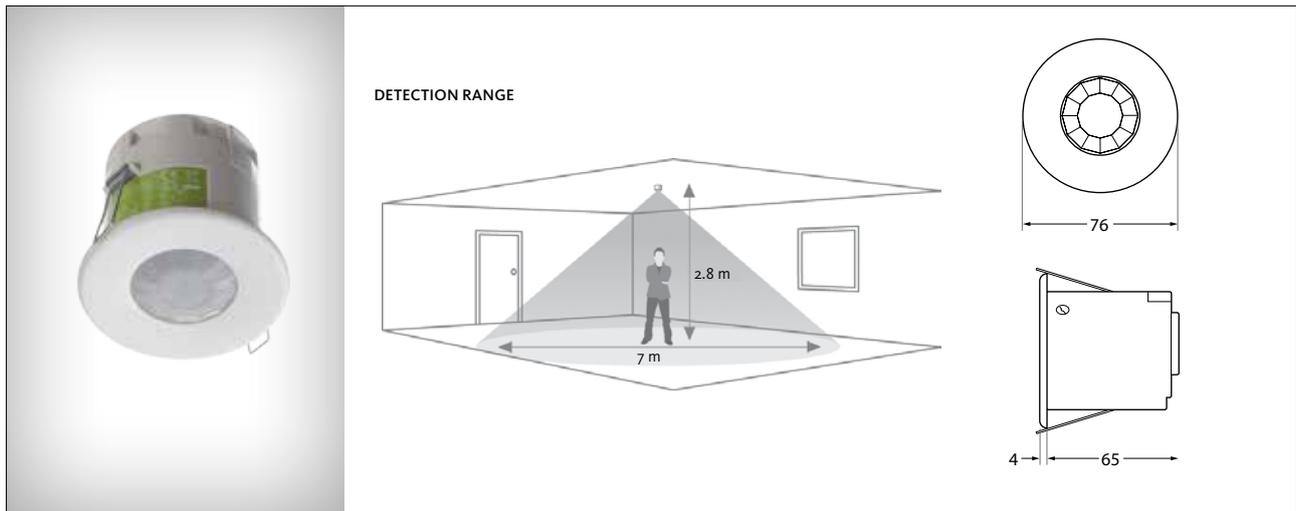


The Universal PIR Sensor is a high-quality sensor that works for most applications and is designed to be a part of a KNX system. The sensor is a PIR (passive infrared) presence

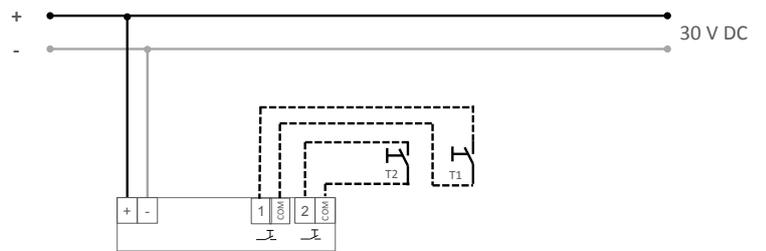
detector that provides automatic control of lighting with optional manual control. This sensor is designed to be a part of a KNX system with two manual inputs. Integrated logic and timer function options makes it easier to create light scenes, without additional external components. Whether you want to control the lighting, heating or ventilation, this sensor have the KNX functionalities to do just that.

- Presence and motion sensor in one
- Detection range up to 16 m at mounting height 2.8 m
- Daylight linking function
- Semi- and fully automatic function
- Stepless dimming level, hold time and detection sensitivity
- Remote controlled for professional commissioning
- Available versions: KNX
- Factory Preset for plug & play
- Low convex profile
- Two manual switch inputs
- Remote controlled light scenes





PRODUCT	EBDSPIR-KNX
Article no.	760102
<b>ELECTRICAL DATA</b>	
Sensor type	PIR
Sensor model	KNX
Voltage	30V/DC
Max. load	-
Max. no. of ballasts	-
IP class	IP 40
Power consumption passive	23,2 mA
Power consumption active	23,2 mA
Operation temperature	-10°C - +35°C
<b>FEATURES</b>	
Detection range	Ø: 7 m / h: 2,8 m height
Channel 1 on/off, (non-floating contact)	-
Channel 2 dim	-
Push button input	Yes
Motion detection by default	yes
Presence detection by setting	Yes
Semi-automatic mode	Yes
Adjustable sensitivity	Yes
Lux switching on & off	Yes
Separate sensitivity for active & passive mode	-
Detection indication	Yes
Setting indication	Yes
Delay time, stepless	10 sec - 30 min
Dimmer memory (last manual setting)	-
Corridor function	-
Auto burn-in of fluorescent tubes	-
<b>SETTING</b>	
Control knob sensor	Yes
Remote control	UNLCDHS
Remote control, user	UH55/UH57
<b>GENERAL DATA</b>	
Dimensions (Diameter/depth mm)	76/65
Product weight (kg)	0,16 kg
Colour	White RAL 9003
Guarantee	5 years
<b>ACCESSORY</b>	
Ceiling mounting bracket	DBB
Wall mounting bracket	DBB-WBRKT



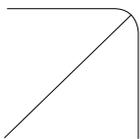
WIRE DIAGRAM KNX SYSTEM

## ACCESSORIES

CEILING BRACKET,  
SMALL  
DBB ART. 760132WALL BRACKET,  
SMALL  
DBB-WBRKT  
ART. 760081

# KNX: Large Range PIR Sensor

Perfect choice for the detection of all types of buildings with high ceilings

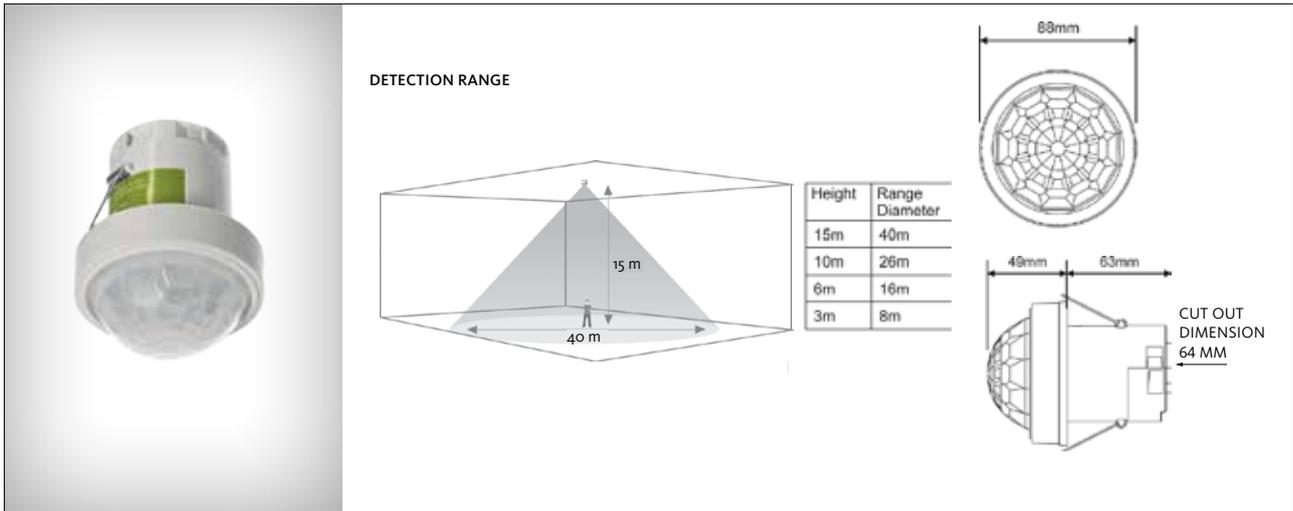


The KNX Large Range PIR Sensor is a passive infrared presence sensor that is suitable for applications with very high ceilings. The unique lens allows an operation height of

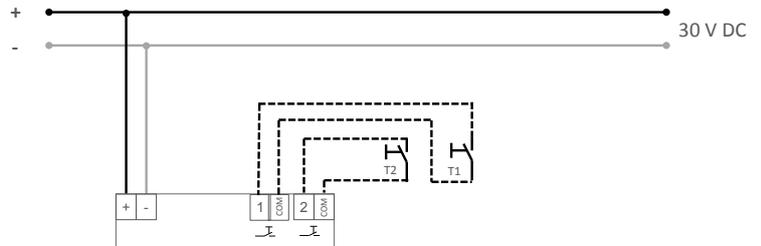
up to 15 m with and corresponding detection range of 40 m. The detection range can be adjusted to an individual detection range (e.g. 360/270/180/90) by using the software. This makes it very easy and flexible to adjust the detection after each situation. It is the perfect solution for all type of buildings with high ceilings like warehouses, production halls, sport halls, hotels and office building entries.

- Detection range 360°/Ø 40 m at a ceiling height 2.8 m
- ETS software can be downloaded from [auralight.com](http://auralight.com)
- KNX activation programmed through the button on the sensor or by remote control
- Detection range Ø 7 m at ceiling height 2.8 m
- Available in on/off, 1-10V, Dali/DSI/wireless AN10® or KNX versions.
- Presence detection and daylight linking
- Invisible mounting due to low profile (5mm)
- Semi- and fully automatic function
- Stepless dimming level, hold time and detection sensitivity
- Easy installation
- Two manual switch inputs
- Remote controlled light scenes
- Designed to be a part of a KNX system



PRODUCT	EBDHS-KNX
<b>Article no.</b>	<b>760194</b>
<b>ELECTRICAL DATA</b>	
Sensor type	PIR
Sensor model	KNX
Voltage	30V DC
Max. load	-
Max no. of ballasts	-
IP class	IP40/ IP65 m packaging
Power consumption passive	23,2MA
Power consumption active	23,2MA
Operating temperature	-10 °C - +35 °C
<b>Features</b>	
Detection range	Ø: 40 m/h: 15 m
Channel 1 on/off, (non-floating contact)	-
Channel 2 dim	-
Push button input	Yes
Motion detection by default	yes
Presence detection by setting	Yes
Semi-automatic mode	Yes
Adjustable sensitivity	Yes
Lux switching on & off	Yes
Separate sensitivity for active & passive mode	-
Detection indication	Yes
Setting indication	Yes
Delay time, stepless	10 sec - 30 min
Dimmer memory (last manual setting)	-
Corridor function	-
Auto burn-in of fluorescent tubes	-
<b>SETTING</b>	
Control knob sensor	Yes
Remote control	UNLCDHS
Remote control, user	UHS5/UHS7
<b>GENERAL</b>	
Dimensions (Diameter/depth mm)	76/65
Product weight (kg)	0,16 kg
Colour	White RAL 9003
Guarantee	5 years
<b>ACCESSORIES</b>	
Ceiling mounting bracket	DBB
Wall mounting bracket	DBB-WBRKT



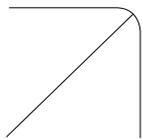
WIRE DIAGRAM KNX SYSTEM

## ACCESSORIES

CEILING BRACKET,  
SMALL  
DBB  
ART. 760132WALL BRACKET,  
SMALL  
DBB-WBRKT  
ART. 760081

# KNX: Universal HF Sensor

A high quality sensor developed for KNX system

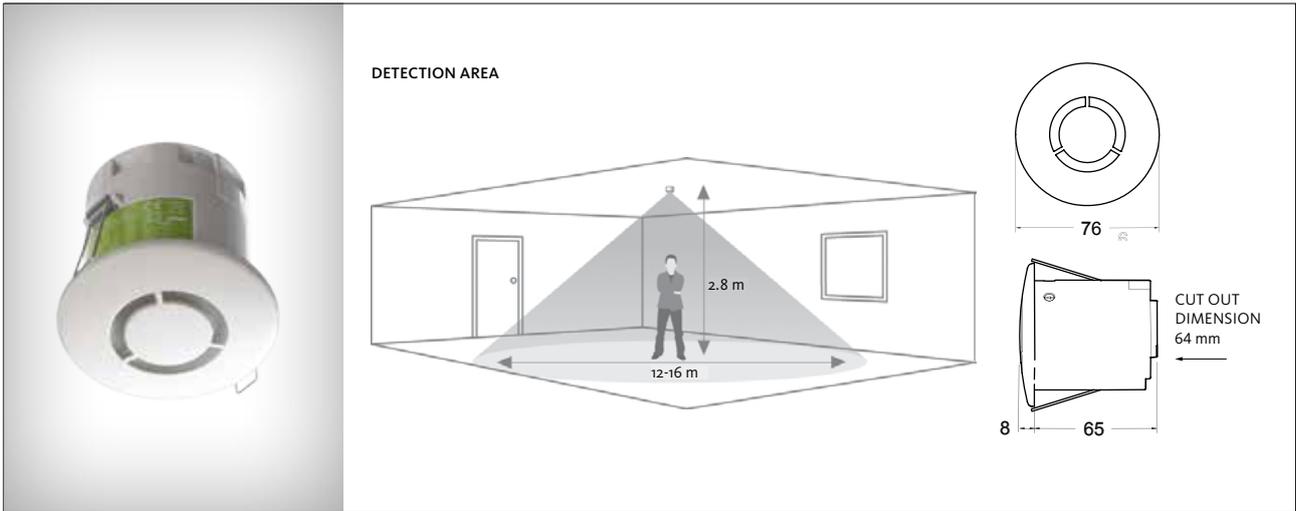


Aura Light's KNX Universal HF Sensor is the perfect solution for any office installation. Even the smallest movements can be detected by the nearly invisible sensor.

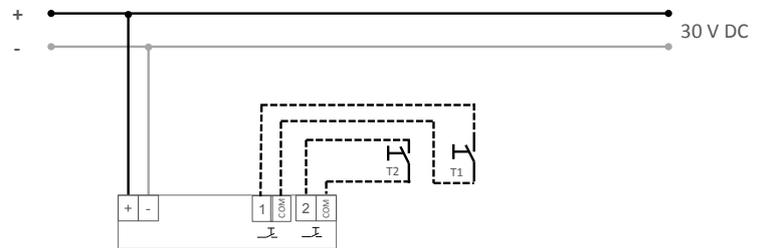
The lighting, heating or ventilation can be controlled by this sensor if it is a part of a KNX Bus system. The sensor is suitable for meeting rooms, offices, restrooms and warehouses. The KNX Corridor HF Sensor has manual input switches which makes it easy to manually control the sensor if needed.

- Detection range up to 360°/16 m at a mounting height 2.8 m
- Low convex profile, for nearly invisible installation
- Semi- and fully automatic function
- ETS software can be downloaded from [auralight.com](http://auralight.com)
- KNX activation programmed through the button on the sensor or by remote control
- Stepless dimming level, hold time and detection sensitivity
- Remote controlled for professional commissioning
- Available versions: on&off/Dali/DSI/ 1-10V/ An10® /KNX
- Factory Preset for plug & play
- Two manual switch inputs
- Remote controlled light scenes
- User-configurable logic functions and timers





PRODUCT	MWS6-KNX
Article no.	760196
<b>TECHICAL DATA</b>	
Sensor type	HF 5,8 GHz
Sensor model	KNX
Voltage	30V/DC
Max. load	-
Max no. of ballasts	-
IP class	IP40
Power consumption passive	23,2mA
Power consumption active	23,2mA
Operation temperature	-10 °C - +35 °C
<b>Features</b>	
Detection range	Ø: 16 m/h: 2,8 m
Channel 1 on/off, (non-floating contact)	-
Channel 2 dim	-
Push button input	Yes
Motion detection by default	yes
Presence detection by setting	Yes
Semi-automatic mode	Yes
Adjustable sensitivity	Yes
Lux switching on & off	Yes
Separate sensitivity for active & passive mode	-
Detection indication	Yes
Setting indication	Yes
Delay time, stepless	10 sec - 30 min
Dimmer memory (last manual setting)	-
Corridor function	-
Auto burn-in of fluorescent tubes	-
<b>SETTING</b>	
Control knob sensor	Yes
Remote control	UNLCDHS
Remote control, user	UH55/UH57
<b>GENERAL</b>	
Dimensions (diameter/depth mm)	76/65
Product weight	0,16 kg
Colour	White RAL 9003
Guarantee	5 years
<b>ACCESSORIES</b>	
Ceiling mounting bracket	DBB
Wall mounting bracket	DBB-WBRKT



WIRE DIAGRAM KNX SYSTEM

ACCESSORIES



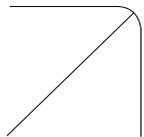
CEILING BRACKET, SMALL DBB ART. 760132



WALL BRACKET, SMALL DBB-WBRKT ART. 760081

# KNX: Corridor HF Sensor

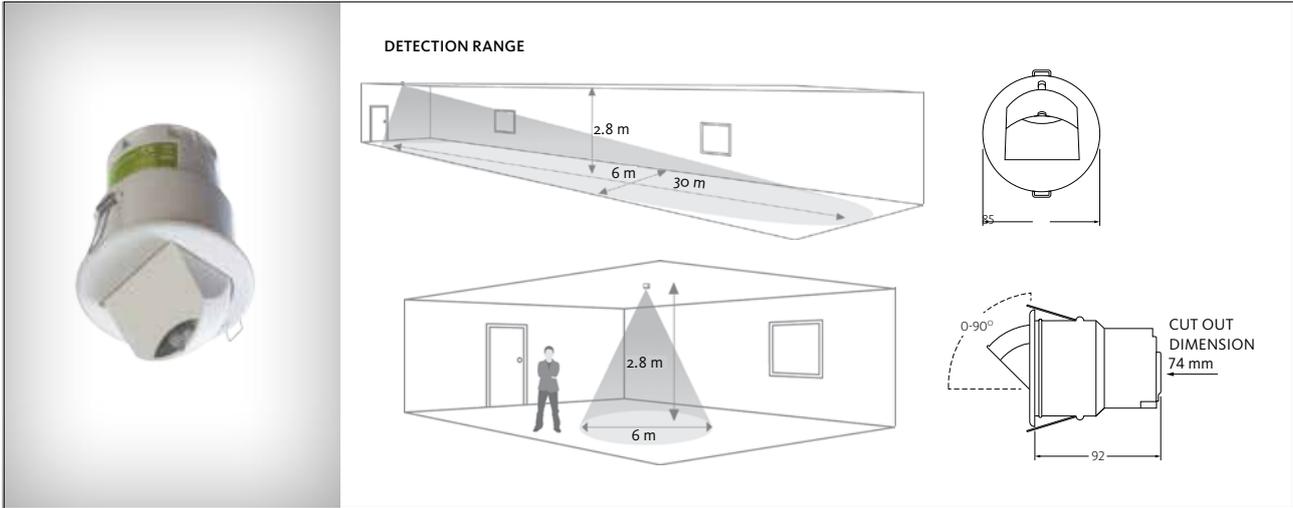
Sensor with a long and narrow detection developed for KNX system



Aura Light's KNX Corridor HF Sensor is the perfect solution for long detection areas like corridors. Even the smallest movements can be detected by the nearly invisible sensor when the antenna is clapped-in. The movable antenna makes the sensor flexible for a variety of mounting places. The lighting, heating or ventilation can be controlled by this sensor if it is a part of a KNX Bus. It is a suitable sensor for meeting rooms, offices, restrooms, warehouses or car parks.

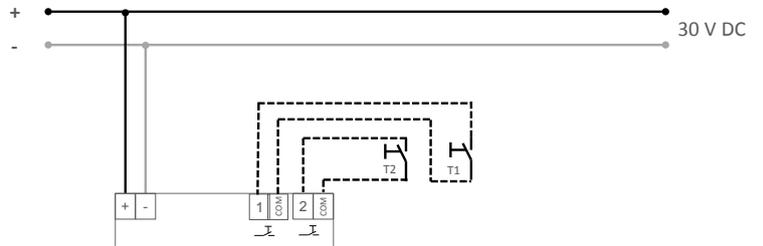
- Detection range up to 30 x 6 m at mounting height 2.8 m
- ETS software can be downloaded from [auralight.com](http://auralight.com)
- KNX activation programmed through the button on the sensor or by remote control
- Daylight linking function
- Semi- and fully automatic function
- Stepless dimming level, hold time and detection sensitivity
- Remote controlled for professional commissioning
- Available versions: on&off/DALI/DSI/ 1-10V/ AN10® /KNX
- Factory Preset for plug & play
- Low convex profile
- Two manual switch inputs
- Remote controlled light scenes
- Designed to be a part of a KNX system





PRODUCT	MWS3-KNX
<b>Article no.</b>	Depends on region
<b>TECHNICAL DATA</b>	
Sensor type	10,525 GHz
Sensor model	KNX
Article no.	760195
Voltage	30V/DC
Max. load	-
Max. no. of ballasts	-
IP class	IP40
Power consumption passive	23,2 mA
Power consumption active	23,2 mA
Operating temperature	-10 °C – +35 °C
<b>Features</b>	
Detection range	30x6 m / h 2,8 m
Channel 1 on/off. (non-floating contact)	-
Channel 2 dim	-
Push button input	Yes
Motion detection by default	yes
Presence detection by setting	Yes
Semi-automatic mode	Yes
Adjustable sensitivity	Yes
Lux switching on & off	Yes
Separate sensitivity for active & passive mode	-
Detection indication	Yes
Setting indication	Yes
Delay time, stepless	10 sec - 30 min
Dimmer memory (last manual setting)	-
Corridor function	-
Auto burn-in of fluorescent tubes	-
<b>SETTING</b>	
Control knob sensor	Yes
Remote control	UNLCDHS
Remote control, user	UHS5/UHS7
<b>GENERAL DATA</b>	
Dimensions (diameter/depth mm)	76/65
Product weight	0,16 kg
Colour	White RAL 9003
Guarantee	5 years
<b>ACCESSORIES</b>	
Ceiling mounting bracket	MWS3A-DBB
Wall mounting bracket	MWS3A-DBB-WBRKT

Code Suffix	Region	MWS3-KNX
R2	Australia and all of Europe except: UK, France, Portugal, Germany, Switzerland, Austria, Slovak Republic, Republic of Ireland	760203
R3	France, Portugal, Switzerland	760204
R4	Germany, Austria, Slovak Republic	760205



WIRE DIAGRAM KNX SYSTEM

ACCESSORIES



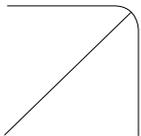
CEILING BRACKET, LARGE  
MWS3A-DBB  
ART. 760133



WALL BRACKET, LARGE  
MWS3A-DBB-WBRKT  
ART. 760080

# DALI Switch & Dim Control

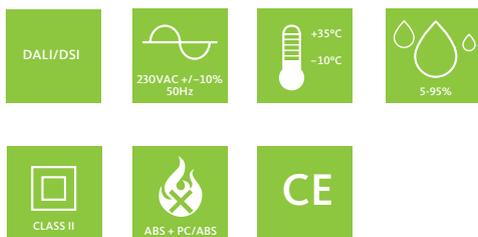
Easy control by manual dimming or recalling of light scenes



This unique control is more than a simple DALI based dimmer. By using a simple dim-up and dim-down function this control recalls programmed light scenes via push buttons 1 to 4. The default setting of light scenes like 100% /75% /50% / 25% can be easily be adjusted to your needs. “By press and hold” programing no further tool is needed to program the wished light level. The on/off center button memorizes the last used scene which will be indicated by the integrated green LEDs to switch on the lights.

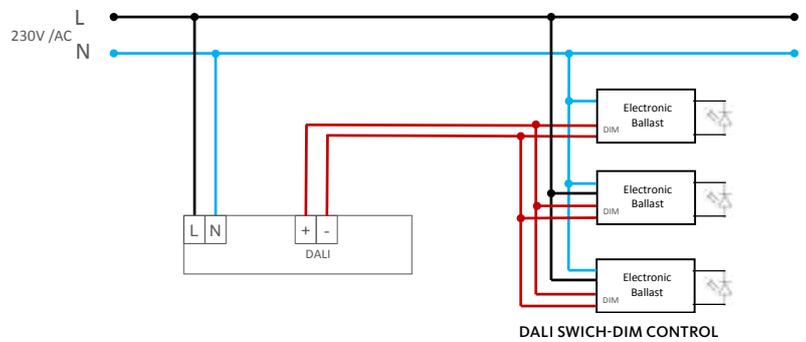
This DALI control is perfect for light control in small offices and meetings rooms with up to 20 DALI or DSI controlled luminaries. The remote control UHS7 can be used to control the DALI dim-switch.

- DALI and DSI broadcast protocol selectable
- Possibility to control up to 20 DALI /DSI ballasts
- Default setting for plug & play
- Pre-set light scenes of 100% /75%/50%/ 25%
- Easy “Push & Hold” programming with LED indication
- Remote control function (UHS 7)
- Recessed and flush mounted options





PRODUCT		DALI SWITCH-DIM CONTROL	
Article no.	760060		
<b>ELECTRICAL DATA</b>			
Control standard	DALI/DSI		
Control protocol	Broadcast		
Voltage	230VAC +/- 10%		
Max. no. of ballasts	20		
IP class	IP20		
Power consumption passive	0,51 W		
Power consumption active	0,53 W		
Operation temperature	-10°C to 35°C		
<b>FEATURES</b>			
Adjustable light scene	Yes		
Preset light scenes	Yes		
Number of set scenes	4		
Stepless dim up /down	Yes		
LED indication	Yes		
Dimmer memory (last man. level)	No		
Auto burn-in of fluorescent tubes	No		
<b>SETTING</b>			
Control knob	Yes		
Remote control	UHS 5 /UHS 7		
<b>GENERAL DATA</b>			
Dimensions (Diameter/depth mm)	86/86		
Product weight (kg)	0.1		
Colour	White RAL 9003		
Guarantee	5 years		
<b>ACCESSORY</b>			
Wall mounting box	GIPB/NRD		



**ACCESSORY**



**WALL BOX GIPB/NRD  
ART. 760156**

# General accessories

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## Profi-handset

For advanced programming of all functions of our Standalone, wireless and KNX Sensors as well as the wireless AN10® range. LCD display for clear programming including "Read back" of current settings. Programs, macros, can be created, named and saved. Can be updated via USB port.

UNLCDHS Art. 760136



## Compact programmable handset

For wireless programming of the most common functions. After initial setup, the remote control can be locked so that only user functions are accessible.

UHS5 Art. 760190



## AN10® Compact programmable handset

For wireless programming of the most common functions in the AN10® range. After initial setup, the remote control can be locked so that only user functions are accessible.

UHS4 Art. 760166



## Building Manager handset

Simple tool to adjust programmed settings like delay time, dim level and light scenes and to recall these functions.

UHS6 Art. 760118



## User handset

For recall of light scenes, on/off dim up & down function.

UHS7 Art. 760137



## User handset for PIR Wall Sensor

For recall of light scenes, on/off dim up & down function.

E-3007N Art. 760155



**Bracket for surface-mounted installation**

Add these bracketes for surface mounted installation of all sensors in the range. Enables ceiling or wall installation. Both small and large ceiling bracket is supplied with spacer ring with room for extra cabling.

Ceiling bracket, Small  
DBB (Art. 760132)

Compatible with:  
Universal PIR sensor, recessed  
Large range PIR sensor  
Cold Area Sensors  
High Bay PIR sensor  
Universal HF sensor



Bracket for Cold Area Sensor  
EBD-ENCIP1  
(Art. 760070)

Compatible with:  
Cold Area PIR Sensor



Wall bracket, Small  
DBB-WBRKT  
(Art.760081)

Compatible with:  
Universal HF sensor  
Large range PIR sensor  
Cold Area Sensors  
High Bay PIR sensor  
Universal HF sensor



Ceiling bracket, Large  
MWS3A-DBB  
(Art.760133)

Compatible with:  
Corridor HF sensor



Wall bracket, Large  
MWS3A-DBB-  
WBRKT  
(Art. 760080)

Compatible with:  
Corridor HF sensor



Wall bracket  
GIPB/NRD  
(Art. 760156)

Compatible with:  
Wall HF sensor  
Wall PIR sensor



Protective frame  
brushed steel  
E-3008N  
(Art. 760153)

Compatible with:  
Wall PIR sensor

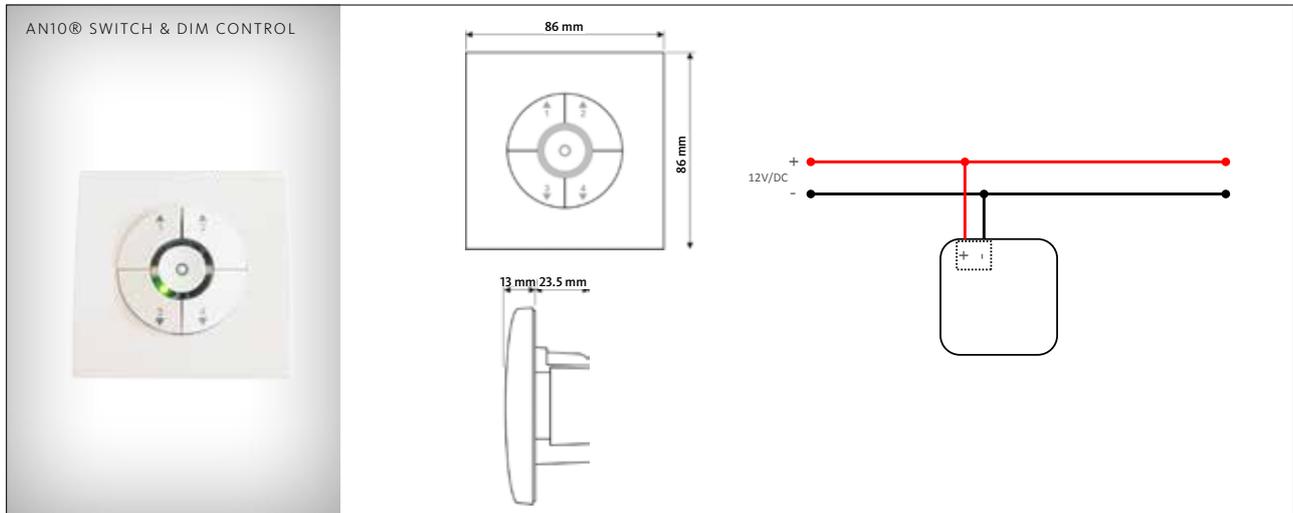


Protective frame  
brushed bronze  
E-3009N  
(Art. 760154)

Compatible with:  
Wall PIR sensor



# AN10<sup>®</sup> Wireless Sensor components



PRODUCT	AR-SG-SB
Article no.	760207
<b>ELECTRICAL DATA</b>	
Voltage	12 VDC / 3V Battery
IP Class	IP40
power consumption active	0,05 W
Power consumption passive	0,00 W
Broadband	868 MHZ
Operation range (outdoor)	> 30 m
Operation temperature	-10° - 35°C
<b>FEATURES</b>	
Push button input	5
Setting indication	Yes
<b>SETTING</b>	
Control knob on sensor	-
Remote control	UNLCDHS
Remote control, user	UHS4
<b>GENERAL DATA</b>	
Dimensions (Diameter/depth mm)	86/86/36.5
Product weight (kg)	0.10
Colour	White
Guarantee	5 years
<b>ACCESSORY</b>	
Sensors	MWS3A-AT / EBDSPIR-AT/EBDHS-AT
Relay module	AT-SL-R / AT-SL-DDR / AT-SL-ADR

## ACCESSORIES



**UNIVERSAL PIR SENSOR**  
ART. 760180  
ART. 760139  
ART. 760138  
ART. 760140



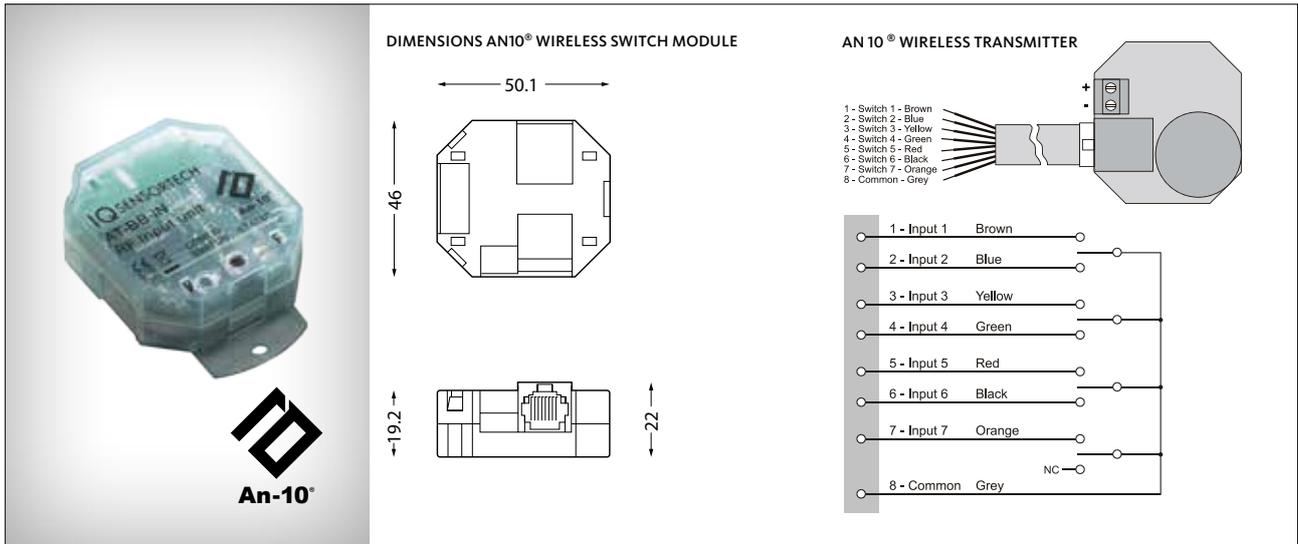
**LARGE RANGE PIR SENSOR**  
ART. 760109  
ART. 760089  
ART. 760111



**CORRIDOR HF SENSOR**  
ART. DEPENDS ON REGION,  
SEE SEPARATE PRODUCT SHEET



**WALL BOX GIPB/NRD**  
ART. 760156



PRODUCT	AT-BB-IN
<b>ELECTRICAL DATA</b>	
Article no.	760167
Voltage	12 VDC / 3V Battery
IP Class	IP 20
power consumption active	0,05 W
Power consumption passive	0,00 W
Broadband	868 MHZ
Operation range (outdoor)	> 30 m
Operation temperature	0° - 35C°
<b>FEATURES</b>	
Push button input	7
Setting indication	Yes
<b>SETTING</b>	
Control knob on sensor	-
Remote control	UNLCDHS
Remote control, user	UHS4
<b>GENERAL DATA</b>	
Dimensions (Diameter/depth mm)	95/55/22
Product weight (kg)	0.10
Colour	Green
Guarantee	5 years
<b>ACCESSORY</b>	
Sensors	MWS3A-AT / EBDSPIR-AT/EBDHS-AT
Relay module	AT-SL-R / AT-SL-DDR / AT-SL-ADR

#### AN10® WIRELESS SWITCH MODULE

AN10® switch module. This module is used to connect switches to the AN10® system. The module transmits signals to any AN10® sensor or relay in the system. The module has inputs for up to 7 push buttons.

#### AT-BB-IN

- Placed in mounting bracket behind the switch.
- Inputs for up to 7 push buttons\*
- Can be used with a push button and/or shutter switch
- Integrated battery that lasts up to 7 years of normal use.
- Alternative to integrated battery is 12 V DC power supply.

\*Create a simple panel with separate push

buttons for preset scenarios. E.g.

Button 1: Field of play 100%

Button 2: Field of play 75%

Button 3: Stands 100%

Button 4: Stands 25%

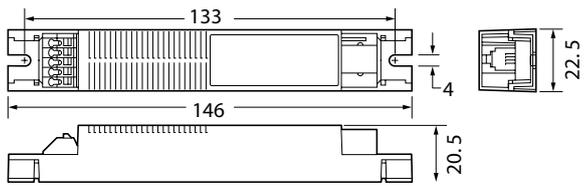
- Etc. up to 7 per module.

Each button can be assigned a unique

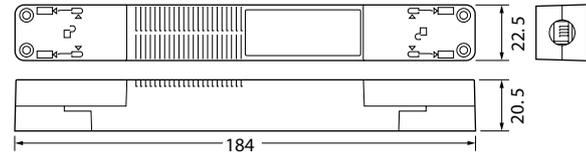
function or scenario.



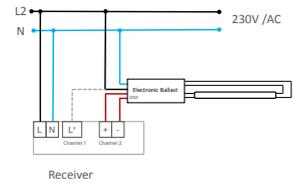
**DIMENSIONS INTEGRATED RECEIVER**



**DIMENSIONS EXTERNAL RECEIVER**



**WIRE DIAGRAM INTEGRATED AND EXTERNAL RELAY AD & DD VERSION**



PRODUCT	AT-SL-R	AT-SL-DDR	AT-SL-ADR	AT-SL-R-SA	AT-SL-DDR-R-SA	AT-SL-ADR-AD-SA
Article no.	760168	760170	760172	760169	760171	760173
<b>ELECTRICAL DATA</b>						
Type	On/Off	DALI	1-10V	On/Off	DALI	1-10V
Voltage	230V AC 50 Hz	230V AC 50 Hz	230V AC 50 Hz	230V AC 50 Hz	230V AC 50 Hz	230V AC 50 Hz
Max. load	2 A	2 A	2 A	2 A	2 A	2 A
Max. no. of ballasts	20	20 if only channel 2 is used. (otherwise 10)	10	20	20 if only channel 2 is used. (otherwise 10)	10
IP class	IP20	IP20	IP20	IP 20	IP 20	IP 20
Power consumption passive	0,51 W	0,51 W	0,51 W	0,51 W	0,51 W	0,51 W
Power consumption active	0,53 W	0,53 W	0,53 W	0,53 W	0,53 W	0,53 W
Broadband	868 MHz	868 MHz	868 MHz	868 MHz	868 MHz	868 MHz
Operation range (indoor)	> 30 m	> 30 m	> 30 m	> 30 m	> 30 m	> 30 m
Operation temperature	0°C - 35°C	0°C - 35°C	0°C - 35°C	0°C - 35°C	0°C - 35°C	0°C - 35°C
<b>FEATURES</b>						
Channel 1 on/off	Yes	Yes	Yes	Yes	Yes	Yes
Channel 2 dim	-	Yes	Yes	-	Yes	Yes
Push button input	Via AT-BB-IN	Via AT-BB-IN	Via AT-BB-IN	Via AT-BB-IN	Via AT-BB-IN	Via AT-BB-IN
Setting indication	Yes	Yes	Yes	Yes	Yes	Yes
Auto burn-in of fluorescent tubes	-	Yes	Yes	-	Yes	Yes
<b>SETTING</b>						
Control knob on sensor	-	-	-			
Remote control	UNLCDHS	UNLCDHS	UNLCDHS	UNLCDHS	UNLCDHS	UNLCDHS
Remote control, user	UHS4	UHS4	UHS4	UHS4	UHS4	UHS4
<b>GENERAL DATA</b>						
Dimensions (Diameter/ depth mm)	133/22/20.5	133/22/20.5	133/22/20.5	184/22.5/20.5	184/22.5/20.5	184/22.5/20.5
Product weight (kg)	0.10	0.10	0.10	0.12	0.12	0.12
Colour	Green	Green	Green	Green	Green	Green
Guarantee	5 years	5 years	5 years	5 years	5 years	5 years
<b>ACCESSORY</b>						
Sensors	MWS3A-AT / EBDSPIR-AT/ EBDHS-AT	MWS3A-AT / EBDSPIR-AT/ EBDHS-AT	MWS3A-AT / EBDSPIR-AT/ EBDHS-AT	MWS3A-AT / EBDSPIR-AT/ EBDHS-AT	MWS3A-AT / EBDSPIR-AT/ EBDHS-AT	MWS3A-AT / EBDSPIR-AT/ EBDHS-AT
Switch module	AT-BB-IN	AT-BB-IN	AT-BB-IN	AT-BB-IN	AT-BB-IN	AT-BB-IN

**AN10® WIRELESS RECEIVER**

Wireless lighting receiver is installed in the luminaire and receives a wireless signal from one or more AN10® sensors. It has a two-way communication with other AN10® units in the system, providing a high level of reliability. One benefit is that the lighting control system can combine on/off, DALI, DSI and 1-10 V products. Suitable for installation in all kinds of luminaires.

**AT-SL-R/AT-SL-RA-SA**

- Wireless communication with all other AN10® units
- Fully automated auto on/off
- Semi-automated manual on/auto off (absence control)
- Control 2 A load
- Programmable via programming handset
- Stepless time delay

**AT-SL-DDR / AT-SL-ADR/AT-SL-DDR-SA/  
AT-SL-ADR-SA**

Features in addition to the above

- For external installations like in recessed ceilings

# Settings/Commissioning for wired systems

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Our PRM, DD / AD sensors are programmed with factory settings that will suit most applications. This enables a more easy and efficient installation. Just connect the load and voltage to the sensor and the installation is complete. There is a possibility to pre-install because the connection terminals are removable.

## **The factory settings for both on / off and dim sensors are:**

- Fully automatic
- Lights up regardless the light level (lux on 9)
- Delay time 20 minutes
- Sensitivity/range Max, (Sensitivity 9)

## **The dim sensors have additional settings:**

- Daylight linking level 600
- Set for DALI

The most common change is to change the presence detection to semi-automatic/absence detection, thus lighting up manually and either switch it off manually or let the sensor turn of the lighting after the delay time.

## **How to change to semi-automatic:**

1. Without programming tools: press and release the button 5 times within 1 minute after power is turned on. The sensor confirms the setting which you can easily see when the diode steadily lights up for 30 seconds.
2. With UHS5: Press shift and ABS (absence) button
3. With UNLCDHS: go to the menu to for the right product and go to Detection mode chose Absence.

## **Do you want to change the delay time?**

1. With UHS5: press "time out mins" and choose how many minutes you want
2. With UNLCDHS: go to the menu for the right product press "Time Out"and choose 1-99 min.

## **Do you want to change so that the sensor do not turn on if there is enough light in the room?**

1. With UHS5: Press Lux on level 1-9. At 9 the sensor lights up regardless of the light level.
2. With UNLCDHS: go to the menu for the right product and to Lux On level, choose 1-9 minutes.

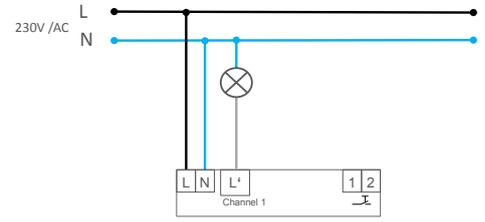
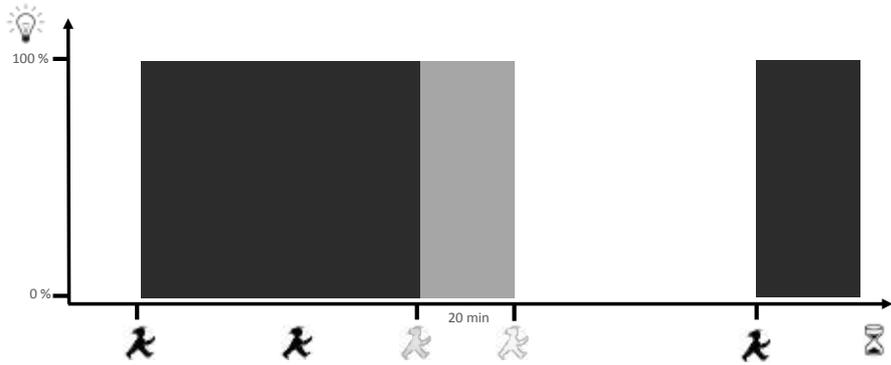
## **Do you want the sensor to turn off if there is enough natural light in the room?**

1. With UHS5: press Lux Off level 1-9. At 9 it does not turn off, regardless the light level.
2. With UNLCDHS: go to the menu for the right product and to Lux On level, choose 1-9.

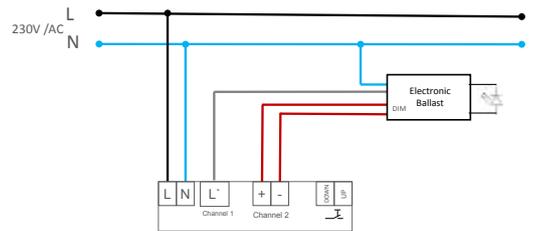
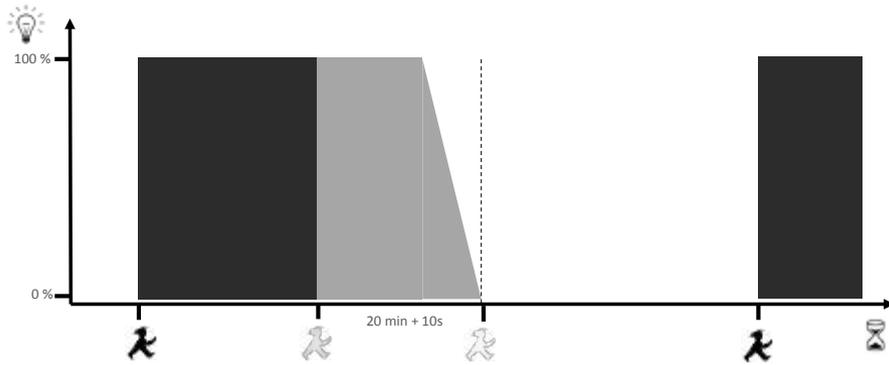
## **Do you want to create a "corridor step" with your corridor sensor, so that the sensor dims down to a predetermined low level after the set time delay?:**

1. With UNLCDHS: go to the menu for the right product and choose Fade Value, choose 1-99. These numbers referes to the dim level % of the light source. Then go to Fade mins 0-99, choose how many minutes it will be on. If you select 0 the light level will be permanent and will not dim down.

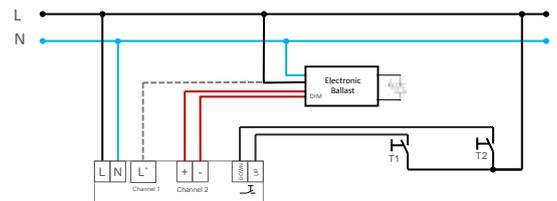
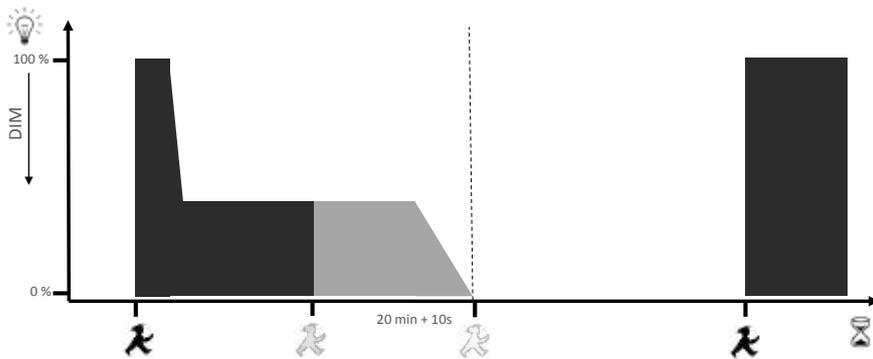
## ON/OFF PRM DEFAULT PROGRAMMING EXAMPLE



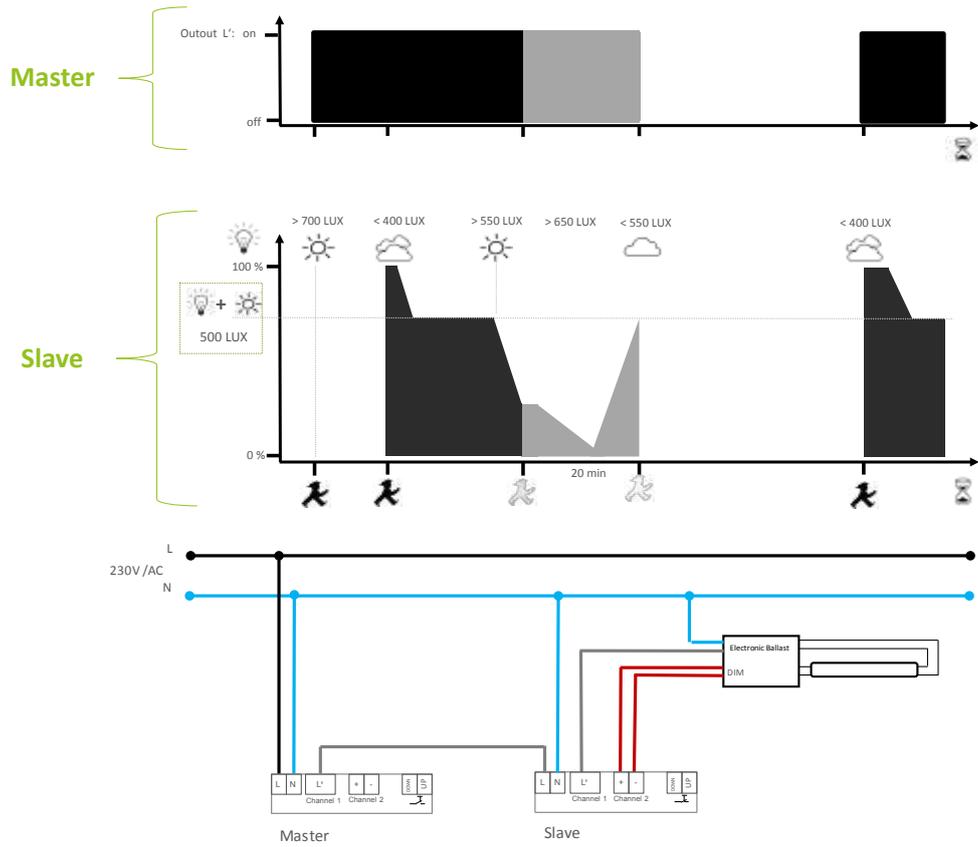
## DIM DEFAULT PROGRAMMING EXAMPLE



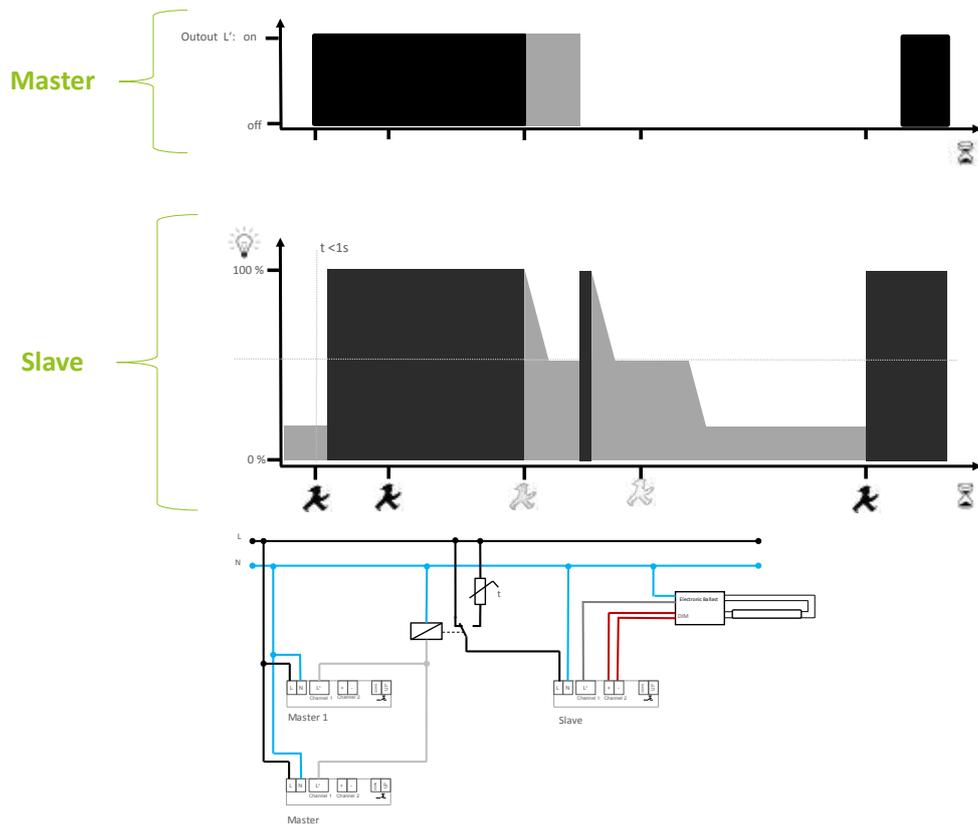
## DIM DEFAULT PROGRAMMING EXAMPLE



# MASTER- SLAVE FUNCTION FOR DIM SENSORS



# MASTER- SLAVE FUNCTION WITH CORRIDOR FUNCTION (1 & 2 STEP)





# Aura Light and our offices

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## Aura Light makes life simply brighter.

Aura Light has been providing lighting and helped our customers since 1930. Today we provide lighting solutions that are smart, sustainable, economical and long lasting. We call it Brighter Lighting. Our sustainable lighting solutions enable professional customers to reduce cost, energy consumption and environmental impact.

### Our sustainability commitment

Aura Light's brighter lighting – from the very first original Long Life light to today's LED solutions, can reduce energy consumption by up to 80%.



### Head office (Postal address)

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Fax: +46 (0)455 267 17  
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[www.auralight.com](http://www.auralight.com)

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Fax: +46 (0)8 564 88 345  
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### Norway

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[www.auralight.fr](http://www.auralight.fr)

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E-mail: [info@auralight.es](mailto:info@auralight.es)  
[www.auralight.es](http://www.auralight.es)

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Aura Light develops and supplies sustainable lighting solutions to professional customers, enabling them to reduce cost, energy consumption and environmental impact. Aura Light is acknowledged for long lifetime, high quality and energy reduction, where our lighting solutions can reduce the energy consumption by up to 80 percent. Aura Light offers everything you need for your lighting installation within all technologies – from fluorescent lamps to LED. We are your total lighting solutions partner.

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